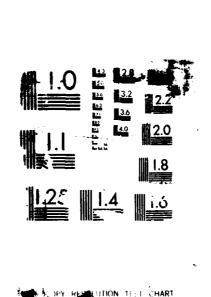
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Automated Interactive Simulation Model (AISIM) VAX Version 5.0 Acceptance Test Procedures

EL PROMICSISTEMS DIVISION

VICKY ALLERTON GLORIA BOICE SUSAN SWEET

Hughes Aircraft Company Ground Systems Group P.O. Box 3310 Fullerton, CA 92634

29 April 1987



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Prepared For

ELECTRONIC SYSTEMS DIVISION
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Director, Systems and Software

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Section 1

INTRODUCTION

l.l Purpose

The purpose of this manual is to describe the procedures for conducting acceptance testing of the Automated Interactive Simulation Model (AISIM) versions 4.2 and 5.0 on a VAX 11/780. Provided with each test procedure is a description of the expected results of each test and room to record observed results.

1.2 Scope

This document contains test procedures for exercising all functions of the AISIM system. These procedures demonstrate conformance of AISIM to requirements specified in the AISIM Computer Program Product Specification.

1.3 Applicable Documents

The documents which will provide further information on the AISIM system are listed below.

- a. Hughes Aircraft Company, Automated Interactive Simulation Model (AISIM) User's Manual, F19628-86-C-0070, Fullerton, California, May 1987.
- b. Hughes Aircraft Company, Automated Interactive Simulation Model (AISIM) Computer Program Product Specification, F19628-86-C-0070, Fullerton, California, May 1987.

Section 2

TEST DESCRIPTIONS AND PROCEDURES

2.1 Test Descriptions

Acceptance testing of AISIM consists of verifying that all the components of the system function properly. Figure 2-1 shows all these components and their relationships to one another. The tests in this manual are composed of procedures to exercise the user interfaces of the AISIM functions and to exercise the simulation capabilities of AISIM. The following paragraphs describe each of these test procedures.

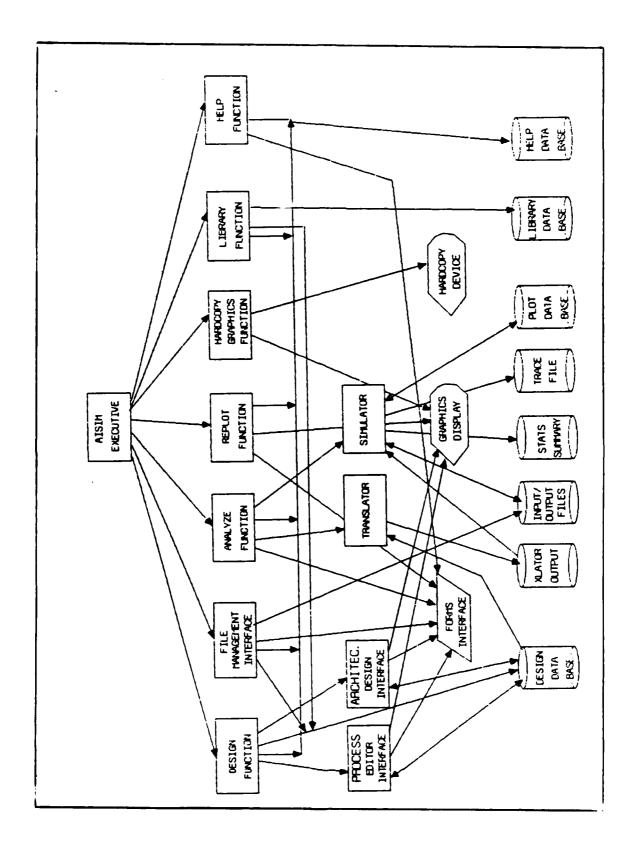
2.1.1 AISIM Executive Test Description

The AISIM executive controls a user's execution of the AISIM system. The executive controls a user's entry into each of the AISIM functions and provides the user with the ability to view simulation reports, generate listings of models, backup and restore data bases, and submit analysis runs in batch mode. Tests for invoking the various AISIM functions are not included in this section because these tests are included in the tests of the individual functions. Test procedure 2.4.1 is designed to show that the following capabilities are available:

- invoke AISIM
- list the parameters in effect for the current AISIM session (project, terminal type, etc.).
- backup a data base
- restore a data base
- change the parameters in effect for the current AISIM session
- delete temporary AISIM files
- edit simulation report files, trace reports and Library function buffers
- create a listing of a model
- display help information about AISIM commands and concepts

2.1.2 Design User Interface Test Description

The Design User Interface is used to create AISIM models. This includes the model entity definition which is performed under the Design User Interface, as well as the subordinate functions of the Process Editor Interface which is used to construct Processes, and the Architecture Design Editor which is used to specify a system architecture and its message routing characteristics. Test Procedure 2.4.2 is designed to show that the following capabilities are available:



 $\{(x,y)\in (X,Y) \cap (X,Y) \cap (Y,Y) \cap (Y,Y$

Figure 2-1. AISIM Overview

PORTURE CONTROL CONTR

- Create entities
- Copy entities
- Modify entities
- List entities
- Delete entities
- Save model data bases
- Add Process Primitives
- Specify default time units to be placed in AISIM forms
- Change Process Primitives
- Delete Process Primitives
- Display various portions of Processes
- Create an architecture: place symbols and connections
- Attach attributes to Architecture Resources by defining attributes of symbols
- Move symbols and connections within an architecture
- Window in an architecture work space
- Create an LPT both manually and automatically
- Display help information about the Design User Interface commands

2.1.3 Analysis User Interface Test Description

The Analysis User Interface is used to run simulations of AISIM models. Test procedure 2.4.3 is intended to show that the following interface and simulation capabilities are available:

- Translate models
- List entities
- Display entity statistics
- Modify entity values
- Establish breakpoints
- Cancel breakpoints
- Define multiple plots with one command

- List current plot definitions
- Define single plots
- Display plots
- Save plot sets (definitions or data)
- List saved plot sets
- Retrieve saved plot definition sets
- Delete selected plot definitions
- Modify time units for display of simulation outputs
- Set infinite resources for specific Resource entities
- Add descriptive text to output report
- Verify display of small numbers in exponential notation in output report
- Run simulations

The AISIM simulator provides the capability to analyze models created through the Design Function. Test procedure 2.4.3 utilizes several preconstructed models to exercise various capabilities of the simulator. Figure 2-2 shows a cross reference of the test models and functional requirements of the simulator tested by each model.

	A	Д		טן	E 	r	1
Random Number Seed					х		
Random Sampling by Variable Dist.				X	X		
Arithmetic Constructs	х			х	Х	х	
Parameter Passing	х	х		х	х		
Simulate for Multiple Periods				x			
Statistical Summary Precision				х]
Queue Manipulation			х	х			
Resource Logic		х	х	X			
Variable Time Units				 X	 		

Figure 2-2. Simulator Testing - Functional Requirements Cross-Reference

Α	В	С	D	E	F
	Х		X		
			х		
х		Х	x	X	
X					
	х				
		X			

Keywords

Message Routing

Process Triggering

Action Restart

File Input and Output

Batch Processing

Figure 2-2. Simulator Testing - Functional Requirements Cross-Reference (cont'd)

2.1.4 Replot User Interface Test Description

The Replot User Interface is used to plot selected simulation results. Test Procedure 2.4.4 is designed to verify that the following capabilities are available:

- List saved plot sets (definitions or data)
- Retrieve saved plot data sets
- Save plot data sets
- Display plots

RESOURCE TO SOCIOLO DE CONTROL DE

- Delete saved plot sets
- Modify time units for display of plot data
- Display plot data from sets created with two different time units

2.1.5 Hardcopy User Interface Test Description

The Hardcopy User Interface is used to document the graphical description of model Processes. Processes can be plotted individually or all Processes in a model can be plotted. Test Procedure 2.4.5 is designed to verify that the following capabilities are available:

- Specify paper size on HP2631G printer and print size for TEK4695 copier (there is only one size of copy on the HP2623 terminal's printer)
- Plot individual Processes

- Plot all model Processes

2.1.6 Library User Interface Test Description

The Library User Interface is used to access the five functions of the Library Function. The Library Function is used to check models into and out of a user's library or the system library, to merge parts of libraries into and out of a user's data base and to convert versions 3.0 and 4.0 data bases to version 5.0 compatible data bases. Test procedure 2.4.6 is designed to verify that the following capabilities are available:

- List the models in a library
- List the contents of a specific library
- Check a model out of a library
- Merge a model into a data base without conflicts
- Resolve naming conflicts in a model to be merged into a data base
- List entities in a data base
- Select entities to be merged out
- Check a model into a library
- Delete a model from a library
- Convert a version 3.0 data base to version 5.0
- Convert a version 4.0 data base to version 5.0

2.1.7 File Management User Interface Test Description

The File Management User Interface is used to create and enter data into a file that can be read by the READ primitive. Test procedure 2.4.7 is designed to show that the following capabilities are available:

- Create files

- Add data to a file
- Delete data from a file
- Error check data entered into a file
- List data in a file
- Display help information about the File Management commands
- Modify data in a file that was not created through this interface

2.1.8 Help Editor Interface Test Description

The Help Editor Interface is used to add and modify information that is available to users via the HELP command. The user cannot change AISIM-provided information but can add and modify user-supplied information under the categories of notes, procedures, and guidelines. Test procedure 2.4.8 is designed to show that the following capabilities are available:

- display help information
- add help information
- modify help information
- delete help information
- list the names of available help topics

2.2 Test Equipment

Acceptance testing will be performed on AISIM versions 4.2V and 5.0V which are to be rehosted on the MITRE Corporation VAX 11/780 in the Bedford Computer Center. This testing will take place at the Hughes facility. The following equipment is required for this testing:

- 1 AISIM supported graphics terminal
- I AISIM supported printer connected to terminal
- connection to a computer system on which AISIM is hosted

2.3 Test Conditions

All input data will be entered by the tester in interactive mode. Some simulations will be run in batch mode. The specific inputs are listed in section 2.4. No other test conditions apply to this test plan.

2.4 Test Procedures

The test procedures in this manual are presented in tabular form. Each test includes a list of the functions to be performed, user commands to perform the test, expected results of each command and function, and an area for recording the test results.

Since AISIM can be used from various terminals (HP2647A, HP2648A, HP2623, TEK4105 and VT100), the AISIM interfaces should be verified for any of these terminals which will be used for running AISIM. Designation of the terminal in use is made the first time a user invokes a function for a given AISIM session. The available terminal designations are the following:

HP - HP2647A and HP2648A terminals

HP23 - HP2623 terminals

TEK - Tektronix 4105 terminals VT - VT100 terminals

All following test procedures are the same for all terminal types except where specifically noted. Any differences in expected results are also noted.

Throughout the acceptance tests, data is entered into AISIM forms. Figure 2-3 describes the function keys which are used to move through the forms on each terminal. Following is a description of the ways in which a user can move through a form. These movements correspond to the column headings in the figure.

<u>UP</u> - If the cursor is in a block of fields, such as Resource attributes, the cursor will move up to the field above it. If the cursor is in a single field or at the top of a block, the cursor will move to the end of the next field above it. If there are no fields above it, the cursor will wrap to the end of the last field in the form.

DOWN - If the cursor is in a block of fields, such as Resource attributes, the cursor will move down to the field below it. If the cursor is in a single field or at the bettom of a block, the cursor will move to the beginning of the next field below it. If there are no fields below it, the cursor will wrap to the beginning of the first field in the form.

<u>LEFT</u> - The cursor will move one position to the left in the current field. If the cursor is at the beginning of a field, it will move to the end of the previous field. If the cursor is at the top of the form, it will wrap to the end of the last field in the form.

RIGHT - The cursor will move one position to the right in the current field. If the cursor is at the end of a field, it will move to the beginning of the next field. If the cursor is at the end of the form, it will wrap to the beginning of the first field in the form.

ENTER - Exit the form and send the data to the forms processing portion of the AISIM system.

+FIELD - Move the cursor to the beginning of the next field in the form. If the cursor is at the end of the form, it will wrap to the top of the form.

<u>-FIELD</u> - Move the cursor to the end of the previous field in the form. If the cursor is at the top of the form, it will wrap to the end of the last field in the form.

	UP	DOWN	LEFT	RIGHT	ENTER	+FIELD	-FIELD
HP2647A	Fl	F2	F3	F4	F 5	<cr></cr>	F6
HP2648A	Fl	F2	F3	F4	F 5	<cr></c	F6
HP2623	Fl	F2	F3	F4	F5	<cr></cr>	F6
TEK4105	Fl	F2	F3	F4	F 5	(cr>	F6
VT100	^	V	<	>	PF1	<cr></cr>	PF2

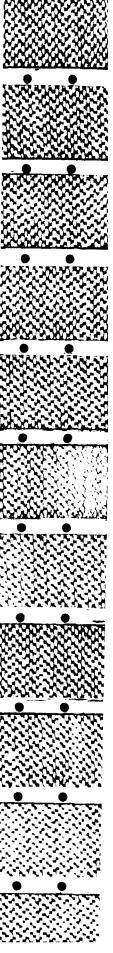
2.4.1 AISIM Executive Test Procedure

This test exercises the commands available from the AISIM READY level and the LIBRARY READY level. One command, the EDIT command, operates on files which have not yet been created by these test procedures. The tests are included in this section for consistency, but they cannot be performed until after the tests in section 2.4.3 and 2.4.6 have been performed. The tests in this section should be performed from directory [.AISIM.TEST42] or [.AISIM.TEST50] in the account where AISIM is hosted.

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
1.	Initiate an AISIM session.		
	AISIM	AISIM executive messages are displayed. AISIM READY and ">" prompt are displayed.	
•	• • •		

 List current parameters before any are defined.

Current parameters are listed. Version is 4.2 or 5.0, terminal is undefined, project is undefined, and user is the user's id.



ADDITIONAL	INPUTS/
EXPECTED	RESULTS

TEST RESULTS

3. Backup a design

data base.
backup p(testdbl)

FUNCTION/COMMANDS

Current parameters are listed. User is asked to continue or abort. User enters "yes". Data base is copied to testdbl.bck.

4. Restore a design data base from backup.

restore p(testdbl)

Current parameters are listed. User is asked to continue or abort. User enters "yes". Data base testdbl.bck is copied to testdbl.dbf.

Change the parameters in effect for the current session.

c p(testdba) t(vt)
c t(tek)

Current parameters are displayed after each

c p(testdbb) selection.

6. Test Msgoff command.

msgoff
c p(testdba) t(hp)
list

Current parameters are not displayed for CHANGE command. Parameters are verified with LIST command.

7. Test Msgon command.

msgon
c p(testdbl) t("term")

Current parameters are displayed for CHANGE command. Replace "term" with designation for terminal currently being used.

ADDITIONAL	INPUTS/
EXPECTED	RESULTS

FUNCTION/COMMANDS

TEST RESULTS

8. Delete temporary AISIM files

delf p(testdbl)

Current parameters are listed. User is asked to continue or abort. User enters "yes". Working files for a project are deleted. There are none at this point in the test. This test can be repeated after tests 2.4.2 and 2.4.3, and verified with a "DIR" command.

Edit simulation reports and trace file.

edit p(testdbb)
edit trace

There are no files at this time. Response informs user that file does not exist. This test can be performed after test 2.4.3 is completed. Use "quit" to exit the editor.

10. Create a listing
 of a model.

glist p(testdba)

Current parameters are listed. User is asked to continue or abort. User enters "yes". A listing of project testdba is created and printed.

11. Display help
information.

help

A description of the AISIM READY level and a list of the valid commands is displayed. Enter a carriage return in response to the "SUBTOPIC NAME" prompt. User enters three carriage returns and the AISIM READY and ">" prompt are displayed.

ADDITIONAL INPUTS/

FUNCTION/COMMANDS

EXPECTED RESULTS

TEST RESULTS

help @concept

A discussion of the top level concept topic and the available topic names are displayed. The user enters 'SCENARIO'. Three carriage returns will page through the help provided on scenarios. User enters two carriage returns and the AISIM READY and ">" prompt are displayed.

12. Invoke Library function.

11b

LIBRARY READY and ">" prompt are displayed.

13. Change parameters of current session.

c b(testbuf)

New parameters are listed.

14. Edit a buffer file.

edit

There is no buffer at this time. Response informs user that file does not exist. This test can be performed after test 2.4.6. Use "quit" to exit the editor.

15. Display valid Library commands.

help

A description of the LIBRARY READY level and a list of the valid commands are displayed. One carriage return will page through the help provided. User enters a carriage return in response to the "SUBTOPIC NAME?" prompt. User enters two carriage returns and the LIBRARY READ and ">" prompt are displayed.

16. List current parameters.

list

Current parameters in effect are displayed.

ADDITIONAL INPUTS/ EXPECTED RESULTS

FUNCTION/COMMANDS

17. Return to AISIM READY

level.

end

AISIM READY and ">" prompt are displayed.

2.4.2 Design User Interface Test Procedure

This test exercises the commands available in the Design User Interface. The test is structured such that results of functions which are not directly observable are verified as part of the test. For example, when a node is placed in the architecture with predefined Resource attributes, the presence of these attributes is verified later in the test.

ADDITIONAL INPUTS/ FUNCTION/COMMANDS

EXPECTED RESULTS

TEST RESULTS

TEST RESULTS

1. Invoke Design User Interface.

> d p(intgtest) t("term") "Term" is replaced by terminal designation for terminal being used. User is asked to continue or abort. User enters "yes". Create data base prompt is displayed. User enters "yes". Data base is copied. "*" prompt is displayed.

2. Edit one of each of the following entity types.

> e r, restest, new e i,itemtest,new e t,tabltest,new e v, vartest, new e c, contest, new e q,quetest,new

e 1,loadtest,new

Appropriate entity form is displayed. User enters random data into forms and enters them. "*" prompt is displayed.

3. Edit new scenario entity.

e s, scentest

Message is displayed indicating that "scentest" does not exist and the user is asked if (s)he wishes to create it. User enters "yes". User verifies that

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

default units in the form are seconds and test proceeds as in 2 above.

- 4. Edit new process entity.
 - e p,proctest,new

Process form is displayed.
User enters random data into form and enters it. "#"
prompt is displayed.

5. Display process editor menu.

menu

On an HP2647A, HP2648A, or TEK4105 terminal, the list of Primitives is displayed, or on an HP2623 or VT100 terminal, a message is displayed informing the user that the menu will not fit on the screen.

- Place each of the following Primitive types.
 - p alloc
 - p assign
 - p branch
 - p call
 - p create
 - p comment
 - p compare
 - p dealloc
 p destroy
 - p entry
 - p file

- p find
- p lock
- p loop
- p prob
- p reset
- p remove
- p resume
- p send
- p suspend
- p test
- p trace
- p unlock
- p wait

Each Primitive form is displayed. User enters miscellaneous data and enters form. "#" prompt is displayed. User issues next Place command. The screen is redrawn whenever the newest Primitive would be placed off the screen. The new Primitive appears at position three on the screen.

ADDITIONAL	INPUTS/
FYPECTED F	PESULTS

FUNCTION/COMMANDS

TEST RESULTS

7. Automatic File and Action creation.

p action p read p write p write p action For action name enter "acttest". Verify that the units field contains "seconds". For read file enter "filetest".

For first write file enter "filetst2". For second write file enter "filetst3". For second action name enter "acttst2". After the forms are entered, the system will notify the user that corresponding entities are being created.

8. Test display of Eval primitive.

p eval

Type the following parameters: variable: "delay", expression: "length*time", comment: "calculate delay time". Enter the form. Variable, expression, and comment are displayed. Comment is enclosed in single quotes.

c 31

Change expression as follows: "abc+def-ghi/klm+random-log10(100.0)+loge(100.0)** sine(2)-tangent(2)*table (5)+integer (random*10)". Enter form. Four lines of expression and no comment are displayed.

c 31

Blank out last line of expression and comment. Enter form. Three lines of expression are displayed and following line is blank.

ADDITIONAL	INPUTS/
EXPECTED	RESULTS

FUNCTION/COMMANDS

TEST RESULTS

 Display portions of Process moving both up and down.

> u 13 d 5 top bottom

User enters combination of movement commands. After each command, screen is erased and new portion of Process is displayed. "#" prompt is redisplayed.

10. Change selected Process Primitives.

c 2 c 3 c 8 c 10 c 15 change various primitives of Process. In response to change command, specified Primitive form is displayed with existing information. User changes information as desired and enters form. System responds by redrawing screen to show changed primitive and displaying "#" prompt. If primitive is off the screen, it is redrawn at position three.

11. Delete selected Process Primitives.

> top del 5 del 2,2 del 13 down 23 del 26,2

THE STATE OF THE PROPERTY OF T

Display top of process.
Randomly select Primitives
to be deleted. In response,
the selected Primitive and
those displayed below it are
erased. Primitives below
one selected are redrawn.
Note that Primitives may only
be deleted if presently shown
on the screen, so "del 13"
command is rejected. "Del 26"
command causes file entity
"filetst3" and action entity
"actst2" to be deleted also.
"#" prompt is displayed.

12. Set Nodraw mode.

nodraw

Mode is set to Nodraw and "#" prompt is displayed.

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
13.	Test Nodraw mode.		
	top c 3 c 5	Display top portion of Process. Modify selected Primitives. The changes are not reflected on the screen. "#" prompt is displayed.	
14.	Display process to show changes.		
	redraw	Top portion of Process is redrawn reflecting all changes. "#" prompt is displayed.	
15.	Exit the Process Editor.		
	end	Screen is cleared and "*" prompt is displayed.	
16.	Verify automatic deletion of file and action entities.		
•	list file	Files "filetest" and "filetst2" should be listed.	
	list action	Action "Acttest" should be listed.	
17.	Copy one of each entity type.		
10	copy r,restest,res2 copy f,filetest,file2 copy i,itemtest,itm2 copy t,tabltest,tabl2 copy a,acttest,act2 copy v,vartest,var2 copy c,contest,con2 copy q,quetest,q2 copy l,loadtest,load2 copy s,scentest,scen2 copy p,proctest,proc2	User enters list of commands, one at a time. User is prevented from copying file entity. After each command, "*" prompt is displayed.	
18.	Verify that Copy commands worked.		
	list r	Original entities and	

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
	list f list i list t list a list v list c list q	copies are listed. "*" prompt is displayed after each command.	
	list l list s list p		
19.	Delete original of each entity type.		
	del r,restest del i,itemtest del t,tabltest del a,acttest del v,vartest del c,contest del q,quetest del l,loadtest del s,scentest del p,proctest del f,filetest	For action "acttest" a message is displayed noting that action is still referenced by action primitives. User is prevented from deleting file "filetest". After each command, system performs processing and displays "*" prompt.	
20.	Change default time units for forms.		
	units minutes	"*" prompt is displayed	
21.	Verify time units change.		
	e l,loadtime,new e s,scentime,new e p,proctime,new p action end	For load and scenario, the user can verify that the time units are minutes and enter the form. For the process, enter the first form and then place the action primitive when the "#" prompt appears. Verify the units, enter the form, and exit the process editor interface. "*" prompt is displayed.	
22.	Test character validation.		
	e r,res.ab,new	Message notifies user that	

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

name has invalid character
".". Enter name RES_\$.
Enter the following
parameters:
initial units: 5.0,
total units: 5.A,
descr: test valid chars!!!,
attributes: namel, attrl,
name2, % time. Enter form.
As prompted, enter 5.0 for
5.A and time! for % time.

- 23. Change description of a file entity and prohibit name change.
 - e f,filetst2

Change name to "filetest". Enter form. Message is displayed informing user that name change is not allowed.

e f,filetst2

Change description to "file entity for filetest".

24. List each entity type.

list r
list f
list i
list t
list a
list v
list c
list q
list l
list s

For file entities both files previously created are displayed. Otherwise, copied entities and new load, scenario and process entities are displayed.

25. Save the data base.

save

Terminal beeps. "*" prompt is displayed.

26. Delete existing Resources and verify. Create new Resource.

del r,*
list r
e r,archtest

Processing performed and "*" prompt is displayed. User lists resources to verify that all

FUNCTION/COMMANDS

ESULTS TEST RESULTS

are deleted. System provides null list and displays "*" prompt. User enters new Resource, filling in Resource form with miscellaneous information.

27. Edit an architecture.

а

Screen is cleared.
Architecture grid is drawn.
"#" prompt is displayed. If
terminal is a VT100, Nodraw
mode is set, so the following
changes are not reflected on
the screen.

28. Definition of symbol/Resource prototypes for various symbols.

def sqr,archtest
def bus
def crd
def dia
def drm
def dsk
def lod
def plg
def prp
def prr
def rec
def tap
def tty

After processing each command, the system displays a "#" prompt. The user should note that the form displayed is the same that was entered for the Resource archtest. After the user enters each command, the system displays the form for the specified symbol. This form is the same as that for resource entities. The user should enter miscellaneous information into this form and enter it. The "#" prompt is displayed.

29. Placement of symbols and connections.

p sqr,AA,20,20 p tri,BB,40,40 p lod,CC,60,40 con AA,CC,conl con AA,BB,con2_F Starting with these mmands, create an rchitecture. On a terminal other than a VT100, when the cursor appears for the "con" commands, type any character except period to complete connection. If on a VT100, a straight-line connection

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

is automatically created; type "redraw" to show changes.

30. Move a symbol within the architecture.

move AA, 30, 30

Symbol is erased and redrawn at new location. Connection is replaced. "#" prompt is displayed. If on a VT100 terminal, type "redraw" to verify.

31. Redo a connection within the architecture using multiple segments.

recon con2 F

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If the user is not on a VT100, the connection is erased and graphics cursor is displayed to user. Enter the connection by moving graphics cursor, typing a period, moving graphics cursor, typing a period, and typing any non-period alphanumeric character. If the user is on a VT100, a straight-line connection is automatically created between the two nodes; use "redraw" to verify -connection should be the same as step 28.

32. Window view space over work space.

win d,20 win u,10 win r,30 win 1,20 win r,20,u,10 win 1,10,d,30 Issue various window commands as shown at left. After each command the screen is erased and then redrawn at a new location. "#" prompt is displayed.

33. Manipulate LPT functions.

list lpt

LPT is listed in alpha

FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
	memory of terminal. LPT should represent point-wise connection of adjacent nodes. "#" prompt is displayed.	
list path, AA, BB list path, BB, CC	Should provide path only when adjacent nodes are specified. System responds with "NO SUCH PATH" for nonadjacent nodes. "#" prompt is displayed.	
<pre>def path,BB,CC, con2_F,con!</pre>	User defines a path through several nodes. System processes command and displays "#" prompt.	
list path,BB,CC	"From node" and "To node" should be the same nodes as used in processing command. Path just entered and all subpaths are displayed. "#" prompt is displayed.	
list lpt	LPT is listed as above. Defined path is added. "#" prompt is displayed.	
del path,BB,CC	Use "from node" and "to node" as above. System processes command. "#" prompt is displayed.	
list path,BB,CC	Use "from node" and "to node" as above. System responds with "NO SUCH PATH". "#" prompt is displayed.	
list lpt	LPT is listed as in last list lpt command except deleted path is gone. "#" prompt is displayed.	
Change node and connection parameters.		
chg name,CC,XX	Node name is changed on screen, if not on a VT100	

34.

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS TEST RESULTS
		terminal. If on a VT100, type "redraw" to verify. "#" prompt is displayed.
	list lpt	Note change to new node name in LPT. "#" prompt is displayed after listing of LPT.
	chg size,BB,4 list lpt chg type,AA,plg list lpt	Appropriate changes are made. After each command, list LPT and verify no change to LPT. "#" prompt displayed after each command in this sequence. On a VT100, use "redraw" to verify changes.
	chg name,Conl,Conx list lpt	Connection name is changed. List LPT to verify correct LPT change. "#" is displayed after each command. On a VT100, use "redraw" to verify change.
35.	Save data base while in architecture.	
	save	Terminal beeps. "#" prompt is displayed.
36.	End architecture session.	
	end	Screen is cleared. LPT message prompts are output. "#" prompt is displayed.
37.	Verify LPT algorithm operation.	
	info	Messages describing LPT algorithms are displayed. "#" prompt is displayed.
	end	No LPT processing done. "*" prompt is displayed. User should reenter architecture, list lpt, and verify that no change has occurred. User then ends architecture session again and uses payt

session again and uses next input as response to LPT

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
		generator prompt.	
	a	LPT algorithm A operates. Control is passed to DUI. "*" prompt is displayed. User should reenter architecture, view LPT with "list lpt" and verify against the architecture. User then returns to DUI session, enters architecture design editor, and receives LPT messages again.	
	b	LPT algorithm B operates. Same prompts and sequences should be reported as in previous step.	
	c	LPT algorithm C operates. "*" prompt is displayed.	
38.	Verify architecture nodes are represented in list of Resources.		
	list r	List of Resources is displayed. User verifies presence of all architecture node and channel Resources, including A and B Resources for F connections used in architecture.	
	e r,AA (representing plg in architecture) e r,BB	Resource form presented. User verifies presence of attributes as specified in Step 28. Repeat for triangle symbol. "*" prompt is displayed after entering forms.	
39.	Reenter Architecture.		
	a	Grid is redrawn. "#" prompt is displayed.	

ADDITIONAL	INPUTS/
EXPECTED	RESULTS

FUNCTION/COMMANDS

40. Delete architecture nodes and connections and exercise help.

> win 1,20,u,30del conx del con2 F del BB del *

Use various delete commands as shown at left to verify use of each. Appropriate symbols and connections are deleted. Del * causes diagram to be cleared. prompt is displayed after

help

processing of each command. Type "redraw" on VT100 terminal to verify. View help display. Enter carriage return to receive "#".

TEST RESULTS

41. Exit the architecture editor.

end

Screen is cleared. LPT generator prompt messages are displayed. "#" prompt is displayed.

42. End LPT.

end

"*" prompt is displayed.

43. Obtain help information.

help

A description of the DUI and a list of available commands appears. Two carriage returns will page through the help provided. User enters "delete" in response to the "SUBTOPIC NAME?" prompt. One carriage return will page through the additional help information displayed. Enter a carriage return in response to the "SUBTOPIC NAME?" prompt. User enters two carriage returns and the "*" prompt is displayed.

ADDITIONAL INPUTS/

FUNCTION/COMMANDS EXPECTED RESULTS TEST RESULTS

44. End DUI.

end

<u> 17.55 | 18.65 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.66 | 16.6</u>

Data base save yes/no save prompt is displayed. User responds yes or no as desired. If no, DUI ends and AISIM READY prompt is displayed. If yes, terminal beeps and then AISIM READY is displayed.

2.4.3 Analysis User Interface Test Procedure

The Analysis User Interface test procedure verifies four functions:

- 1. that a model data base can be translated by the Translate Function,
- that the translated model can be initialized by the Analysis User Interface,
- 3. that the Analysis User Interface commands can be successfully exercised against the initialized model, and
- 4. that the capabilities of the simulator function properly.

FUNCTION/COMMANDS ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

 Invoke the Analysis User Interface (AUI).

a p(testdbl)

User is queried "Yes to proceed, No to abort". User enters "Yes". Translation of model data base is performed. User is asked if (s)he wants to add a description of the run. User enters "yes". A form is displayed and user can modify description. Model initialization takes place. The following message is displayed: "NO ERRORS DETECTED IN MODEL TRANSLATION YOU MAY NOW ENTER COMMANDS". "#" prompt is then displayed.

ADDITIONAL	INPUTS/
EXPECTED	RESULTS

FUNCTION/COMMANDS

TEST RESULTS

2. List each entity type.

l c l r l p l v l q l i

Appropriate list of entities is displayed and "#" prompt is displayed after each command. Check lists against Appendix A.

3. Define Plots.

def r,b6bl # in wait queue cumulative mean def r,b4b5 # in busy queue cumulative mean def v,v router current def p,mrs completion time cumulative mean def i,msg time in system cumulative mean def r,b1b2,b2b3 wait time cumulative mean

An attribute form for the selected entity type is displayed. User selects one attribute and enters form. A statistic form is displayed. User selects one statistic and enters form. Final command defines two Resource plots with one command. "#" prompt is displayed after each command.

4. List current plot definition titles.

list title

A list of the current plot definitons appears and the "#" prompt is displayed.

Delete a plot definition.

delete title,2

Plot definition is deleted. Deletion should be verified by repeating step 4. "#" prompt is displayed.

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
6.	Set a breakpoint.		
	set r,blb2,gt,0	Appropriate entity attribute and statistic selection forms are displayed. Pick condition such as current number in busy queue. User enters forms and receives "#" prompt is displayed.	
7.	Initiate the simulation.		
	go	Simulation begins. When breakpoint is reached, simulation is halted and user is allowed to enter commands. "#" prompt is displayed.	
8.	Display selected entity statistics.		
	lv r,b1b2 lv r,h2 lv i,msg lv stream	All statistics associated with specified entity are displayed. Enter "y" to continue. "#" prompt is displayed.	
9.	Edit variable.		
	edit v,v_router,0	The screen is cleared and "#" prompt is displayed.	
10.	Continue the simulation		
	go	Simulation continues until terminated. Message indicating normal termination is displayed. User is allowed to enter commands. "#" prompt displayed.	

	ADDITIONAL INPUTS/	
FUNCTION/COMMANDS	EXPECTED RESULTS	TEST RESULTS

11. Display the plots in various combinations.

plot Menu of plots is displayed.

User selects desired plots.
Plots are displayed. "#"
prompt is displayed. User
should repeat for various plots.

12. Change units and redisplay last plot.

units minutes Select same plots and note change in units on display.

"*" prompt is displayed.

13. Save plot data and definitions

save def,defsetl, Definitions and plots are definitions saved. Screen is cleared save plot,plotsetl, after each command and "#"

runl results prompted is displayed.

14. List the saved plot sets and definition sets.

1 plot The names of each plot set 1 def and definition set and their

descriptions are displayed.
"#" prompt is displayed.

15. Exit Analysis User

Interface.

Screen is cleared and AISIM READY prompt is displayed.

16. Reenter AUI.

end

a p(testdb1) See step 1.

17. Edit selected constant to change simulation results.

edit c, secs chr, 150 "#" prompt is displayed.

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

18. Get plot definitions.

FUNCTION/COMMANDS

get def, defsetl

Screen is cleared and "#" prompt is displayed.

19. Delete a plot definition.

del title,6

See step 5.

20. Set a breakpoint.

set r, b3b4, gt, 0

See step 6.

21. Cancel the breakpoint.

can

Breakpoint is cancelled. Screen is cleared followed by "#" prompt.

22. Set infinite resources.

infres blb2,b2b3

Infinite resources set, for specific resources. "#" prompt is displayed.

23. Execute simulation.

go

Simulation executes. Initial message displays the real time at the start of the simulation. At the end of the real time and simulation time is displayed. Normal termination messages are displayed. "#" prompt is displayed.

24. Save plot results.

save plot,plotset2,
 run2 results

Plot results and plot definitions are saved. "#" prompt is displayed.

save def, defset2, run2 definitions

25. Exit the Analysis User Interface.

end

See step 15.

The following procedures test the capabilities of the AISIM simulator by the use of various data bases provided on the system tape. These data bases are called TESTDBA.DBF, TESTDBB.DBF, TESTDBC.DBF, TESTDBD.DBF, TESTDBE.DBF, and TESTDBF.DBF. Appendix B contains the initialization report for each of these data bases before any of the following tests are run, and Appendix C contains the output report for each after the following tests have been completed. These reports should be compared with the observed test results to verify the operation of the AISIM simulator.

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
26.	Test item, resource preemption, call Process, and action restart logic.		
	a p(testdba)	See step 1.	
	go	Initiate simulation. When simulation completes, message indicating normal termination is displayed. "#" prompt is displayed.	
	end	User exists AUI. Screen is cleared and AISIM READY prompt is displayed. Output report TESTDBA.RPT should be compared with report in Appendix C.	
27.	Test keywords, parameter passing, and Read/Write.		
	a p(testdbb)	See step 1.	
	go	Initiate simulation. When simulation completes, message indicating normal termination is displayed. "#" prompt is displayed.	
	end	User exits AUI. Screen is cleared and AISIM READY prompt is displayed. Output report TESTDBB.RPT should be compared with report in Appendix C.	

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ADDITIONAL INPUTS/ EXPECTED RESULTS

FUNCTION/COMMANDS

TEST RESULTS

Define plot definitions in preparation for batch mode processing.

a p(testdbc)

See step 1.

def i, msg

Attribute form is displayed.

Select "time in system" and enter form. Statistics form is displayed. Select "cumulative mean" and enter

form.

save def, onedef

Save plot definition.

end

User exits AUI. AISIM READY

prompt is displayed.

29. Submit run to batch queue.

batch

FROM MANCHES TO THE THE SECOND SECOND

User is asked to enter 1-8 character project name. "TESTDBC" should be entered. User is asked if model should be translated. "Yes" should be entered. User is asked if description is to be entitled. Enter "yes" and fill in form. User is prompted for commands. Enter: GET DEF, ONEDEF

SAVE PLOT, ONEPLOT

END NO

User is notified that file subbatch.com is created.

submit/notify/ name=testdbc subbatch.com

Submit job to computer.

	ADDII
FUNCTION/COMMANDS	EXPE

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

replot p(testdbc)
get plot,oneplot
plot
end

When the job is completed, enter Replot to verify that the plot was saved. Retrieve the plot data and plot it. Then exit Replot and return to the AISIM READY prompt. Report TESTDBC.RPT should be compared with Appendix C.

30. Test variable time units, message routing, and resource logic.

a p(testdbd)

See step 1.

go

Initiate simulation. Verify display of end of period messages. When simulation completes, message indicating normal termination is displayed. "#" prompt is displayed.

end

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User exits AUI. Screen is cleared and AISIM READY prompt is displayed. Output report TESDBD.RPT should be compared with report in Appendix C. Verify action "xfer" for use of scientific notation for very small numbers.

31. Test Arithmetic function.

a p(testdbe)

See step 1.

go

Initiate simulation. When simulation completes, message indicating normal termination is displayed. "#" prompt is displayed.

end

User exits AUI. Screen is cleared and AISIM READY prompt is displayed. Output report TESTDBE.RPT should be compared with report in Appendix C.

ADDITIONAL	INPUTS/
EXPECTED	RESULTS

FUNCTION/COMMANDS

32. Test error handling for arithmetic constructs during initialization.

a p(testdbf)

User is queried "yes to proceed, no to abort". User enters "yes". Translation of model data base is performed. A message indicating that errors were detected during initialization is displayed.

edit

The report will be placed in the EDT editor so the user can examine the errors. The first error results from too few parentheses. Add ")" after "TDIS(1)".

The second error results from the use of brackets in a function call. The third error results from a missing operator between two variables. Correct with a "*" before TDIS(2). These errors should be corrected by reentering the DUI and repeating step 32.

33. Test error handling in arithmetic constructs during execution.

go

Initiate simulation. Simulation halts when an error is detected.

end

The user exits the AUI, finds the error via the EDIT command. The error results from the use of brackets in a Table reference.

The error should be corrected by using parentheses and the model re—analyzed. The run will again halt due to error. This time parentheses are mistakenly used in an entity reference. They should be replaced with brackets. The simulation will then run to termination.

ADDITIONAL INPUTS/

EXPECTED RESULTS

TEST RESULTS

end

FUNCTION/COMMANDS

User exits AUI and returns to the AISIM READY prompt.

2.4.4 Replot User Interface Test Procedure

The Replot User Interface Test Procedure will be used to test all Replot commands and all capabilities of the Replot function as described in section 2.1.4.

ADDITIONAL INPUTS/ FUNCTION/COMMANDS EXPECTED RESULTS TEST RESULTS

1. Invoke the Replot User Interface.

> replot p(testdbl) User is queried "yes to proceed, no to abort". User enters "yes". "\$" prompt is displayed.

2. List set names and titles

> 1 def 1 plot 1 title

"L def" lists all plot definition sets, "I plot" lists all plot data sets, "I title" lists current plot titles--none at this point. "\$" prompt is displayed.

3. Retrieve each plot data set, selecting plots from each set.

> get plot, plotset1 get plot, plotset2

Plot titles in each set are displayed. User is allowed to select specific plots which are put in the current set of plots. "\$" prompt is displayed.

4. List titles

l title

Titles of current plots are displayed. "\$" prompt is displayed.

	FUNCTION/COMMANDS	EXPECTED RESULTS	TEST RESULTS
5.	Display the plots in various combinations.		
	plot	Current plot titles are displayed for user selection. After selection, plot is generated and "\$" prompt is displayed.	
6.	Change units and redisplay last plot.		
	units minutes	Select same plots and note change in units on display. "\$" prompt is displayed.	
7.	Clear the current plots.		
	clear	Current plot information is purged. "\$" prompt is displayed.	
8.	Repeat steps 3-5 selecting new plots.	See steps 3-5.	
9.	Delete a plot set.		
	delete plot,plotsetl	Plotset is deleted. "\$" prompt is displayed.	
10.	Delete a definition set.		
	delete def,defsetl	Definition set is deleted. "\$" prompt is displayed.	
11.	List sets.		
	l def l plot	List of remaining sets of each type are displayed followed by "\$" prompt.	
12.	Save plot data to a new set.		
	save plot,plotset3, plot saved in Replot	Plot set containing currently selected plots is created. "S" prompt is displayed.	

ADDITIONAL INPUTS/

ADDITIONAL INPUTS / EXPECTED RESULTS

FUNCTION/COMMANDS

TEST RESULTS

13. Exit the Replot User Interface.

end

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Screen is cleared. AISIM READY prompt is displayed.

2.4.5 Hardcopy User Interface Test Procedure

The Hardcopy User Interface test verifies that the data interface between the AISIM system and the terminal is operating properly, and it exercises the functions described in section 2.1.5.

FUNCTION/COMMANDS ADDITIONAL INPUTS/
EXPECTED RESULTS

TEST RESULTS

Invoke the Hardcopy User Interface – plot single Process.

hcopy p(testdbl)

User is asked to continue or abort. User enters "yes". User is then prompted whether to plot all Processes. User enters "no". If the user is on an HP2647A or HP2648A terminal, the user is prompted for paper size and then to position paper. User positions paper. If the user is on a TEK4105 terminal, the user is prompted for copy size and to position paper. On an HP2623 user is prompted to position paper. On an HP2623 user is prompted to position paper. User is prompted for Processes to plot one at a time. Processes MRS, TO1, and TO2 are plotted. User is returned to AISIM READY level when user indicates desire to exit with carriage return.

2. Invoke the HUI-plot all Processes.

hcopy p(testdbl)

User is asked to continue or abort. User enters "yes".

FUNCTION/COMMANDS ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

User is then prompted whether to plot all Processes. User enters "yes". If the user is on the HP2647A or HP2648A terminal, the user is prompted for paper size and to position paper. User positions paper. If the user is on a TEK4105 terminal, the user is prompted for copy size and to position paper. On an HP2623 terminal user is prompted to position paper. Processes are plotted. User is returned to AISIM READY level.

2.4.6 Library User Interface Test Procedure

The five Library subfunctions are Checkin, Checkout, Convert, Mergein, and Mergeout. Test steps associated with the testing of Checkout are preceded by a CO (i.e., CO1, CO2, CO3 etc.). Mergein steps are preceded by an MI (i.e., MI1, MI2, etc.). Likewise Mergeout, Checkin, and Convert steps are preceded by MO, CI, and CV respectively.

FUNCTION/COMMANDS

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

Access the Library Functions

Library

Enter command at the AISIM READY level. System responds with LIBRARY READY.

CO1. Invoke the Checkout Function on the system library.

co 1(system) b(testbuf)

System displays verification messages and prompt. User types yes. "You may now extract models from the library" is displayed as well as "*" prompt.

CO2. List all models in the library.

1 *

All models in system library are listed. "*" prompt is displayed.

ADDITIONAL	INPUTS/
EXPECTED	RESULTS

FUNCTION/COMMANDS

TEST RESULTS

CO3. List the contents of a specific model.

l commun_a

For every legal entity type, all the entities of that type are displayed followed by "do you wish to continue listing the model?" query. User should respond yes until the "*" prompt is displayed after the Processes are listed.

CO4. Flag a model to be Checked out.

ext commun a

The model is flagged for extraction. "*" prompt displayed.

CO5. Exit the Checkout Function.

end

A message is displayed when the Checkout is completed. The user is returned to the LIBRARY READY level.

MII. Invoke the Mergein Function using the same buffer with an empty data base.

mi p(testdb) b(testbuf) Verification messages and prompt are displayed. User responds "yes". User is asked if (s)he wants to create the project. User responds "yes". Messages are displayed indicating no naming conflicts. Mergein operation completes and LIBRARY READY prompt is displayed.

MI2. Invoke the Mergein Function with same data base and buffer to create naming conflicts.

	ADDITIONAL	INPUTS/
FUNCTION/COMMANDS	EXPECTED	RESULTS

mi p(testdb) b(testbuf)

Verification messages and prompt displayed. User responds yes. This time the system tells the user that 7 conflicts were detected and asks if the user wishes to resolve these conflicts. User responds "yes".

MI3. Resolve the naming conflicts.

User responds to "option:" prompts and verification is given. Mergein operation is begun as soon as all naming conflicts are resolved.

MO1. Invoke the Mergeout Function using the same buffer and data base.

mo p(testdb)
B(testbuf)

SECT DESCRIPTION SALESCE PROPERTY CONTROL DISTURBED TO SECURIFY WAS ASSESSED TO SECURIFY DESCRIPTION OF THE PER

Verification messages and prompt displayed. User enters yes. User prompted to reuse buffer. User enters yes. "*" prompt is displayed.

MO2. List entities in the data base.

l item
l variable
l process

Entities of the specified types are displayed. "*" prompt is displayed.

MO3. Select entities to be merged out and list them on the screen.

s i,message s p,chlio Selected entities are flagged to be merged out. "*" prompt is displayed.

MO4. Flag duplicate selections.

s i,message

Message will be displayed informing user of a duplicate

	ADDITIONAL INPUTS/
FUNCTION/COMMANDS	EXPECTED RESULTS

selection. The entry is not flagged for selection.

MO5. List selections.

1 sel

Selections are listed. "*" prompt is displayed.

MO6. Exit the Mergeout Function.

end

The Mergeout operation is performed. The user is returned to the LIBRARY READY level.

CII. Invoke the Checkin Function using the same buffer and an empty library.

ci l(testlib)
b(testbuf)

Verification messages and prompt are displayed. User enters "yes". User is asked if the library should be created. User enters "yes".

CI2. Describe the model to be checked in.

(name) MODEL
<number>
<description>

The user is prompted for a document reference number and a description. User is asked if library update is to be permanent. User enters "yes".

CO6. Invoke the Checkout Function using the same buffer and library.

co l(testlib)
b(testbuf)

Verification messages and prompt displayed. User enters "yes". Prompt to reuse buffer. User enters "yes". "*" prompt is displayed.

ADDITIONAL	INPUTS/
FYPFCTFN	PESIII TS

FUNCTION/COMMANDS

CO7. List all models in the data base.

Names of models in the data
base are listed.

CO8. List the contents of the previously checked in model.

CO9. Delete the model from the library.

delete model The model is deleted. "*"

prompt is displayed.

CO10. Verify the deletion with the list command.

1 * Existing models are listed.

COll. Exit the Checkout Function.

end User is returned to the LIBRARY READY level.

CV1. Invoke the Conversion Function for a version 3.0 data base.

conv p(testconv3) Verification messages and prompt are displayed. User enters "yes". Completion message is displayed and user is informed of the name of the file containing any error

messages and and a log of name changes. User is returned to the LIBRARY READY level.

CV2. Edit conversion report to view any errors or name changes.

edit conv View file with edit commands.

	ADDITIONAL INPUTS/	
FUNCTION/COMMANDS	EXPECTED RESULTS	TEST RESULTS

CV3. Verify conversion

end Return to AISIM READY level.
glist p(testconv3) Invoke Genlist program
to create a listing of the
data base and place in file
testconv3.lst. Compare with

Appendix D.

CV4. Invoke conversion function for a version 4.0 data base.

lib Return to LIBRARY READY.

conv p(testconv4)
 dbv(v40)

Verification messages and prompt are displayed. User enters "yes". Completion message is displayed and user is informed of the name of the file containing any error messages and a log of name changes. User is returned to the LIBRARY READY level.

CV5. Edit conversion report to view any errors or name changes.

edit conv View file with edit commands.

CV6. Verify conversion.

end
glist p(testconv4)

Return to AISIM READY. Invoke Genlist program to create a listing of the data base and place in testconv4.lst. Compare with Appendix D.

2.4.7 File Management User Interface Test Procedure

This test exercises the commands available in the File Management User Interface as described in 2.1.7.

ADDITIONAL INPUTS/
FUNCTION/COMMANDS EXPECTED RESULTS TEST RESULTS

1. Invoke File Management

	FUNCTION/COMMANDS	EXPECTED RESULTS	TEST RESULTS
	User Interface.		
	F f(testfile)	Error checking is off. User is asked to continue or abort. User enters "yes". User is asked if file should be created. User enters "yes". FUI prompt "*" is displayed.	
2.	Place one of each entity type.		
	<pre>p p,1 p r,2 p i,3 p q,4 p t,5 p a,6 p a1,7 p n,8 p r[],9 rattrl rattr2 rattr3 p p[],12 pattrl p 1[],13 i1 i2 i3</pre>	Each form is displayed. User enters data into form and then enters the form. "*" prompt is displayed. User issues next place command.	
3.	Delete lines from the file.		
	del 1 del 4,6	Delete lines 1,4,5,6. User is informed of the number of lines deleted.	
4.	List lines from the file.		
	1 2 1 7,9	List lines, 2,7,8,9 from the file.	
5.	Display help information.		
	help	A description of the File Management User	

ADDITIONAL INPUTS/

Interface and available

PROPERTY PROPERTY - MANAGEMENT - MANAGEMENT

FUNCT	TON.	COMMANDS
LONCI	TON	COMMINDS

ADDITIONAL INPUTS/ EXPECTED RESULTS

TEST RESULTS

commands is displayed.
User enters one carriage
return to page through
the help provided. User
enters "RENUM" in response
to the "SUBTOPIC NAME?"
prompt. Information on the
RENUM command is
displayed. Two carriage
returns are entered and
the "*" prompt is displayed.

 Insert a line and renumber the File.

> pr,2 renum

Places a resource at line 2.1 then the renumbering numbers the file lines 1-12.

7. Test LISTON mode.

liston p i,12

The item is placed after line 12 (at line 13) and line 13 is printed on the screen.

8. Test LISTOFF mode.

listoff p p,10

9. End

The process is placed at line 10, but the line is not printed.

Save query is displayed. User

enters "yes". Return to AISIM READY.

- 10. Invoke File Management User Interface with error checking on.

F f(testfile)
 e(testdbl)

Error checking is on and checks against project testdbl. User is asked to continue or abort. User enters "yes." "*" prompt displayed.

11. Place attributes with error checking.

p r[],B1,1

The template for resource Bl is displayed. User should enter values for all of Bl attributes.



	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
12.	Place entity with error checking.		
	p r,B1B2,2	The entity's existence is verified. The entity is then added at line 2.1.	
13.	List with error checking on.		
	list r	All of the resources in testdb will be listed on the screen.	1
14.	Exit File Management Interface		
	end	Save query is displayed. User enters "yes". User is returne to the AISIM READY level.	d
15.	Create file using text editor		
	edit/edt testin.txt	EDT editor is invoked. Enter the following values into the file: CASE1 CPU SPEED1 LENGTH1 OVHD1 Exit the editor, saving the data.	
	edit/edt case2in.txt	EDT editor is invoked. Enter the following values into the file: CASE2 CPU SPEED2 LENGTH2 OVHD2 Exit the editor, saving the data.	
16.	Invoke FUI for first case file.		
	F f(testin)	User is asked to continue or abort. User enters "yes". "*" prompt is displayed.	

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST	RESULTS
	del l	Delete first line.		
	p n,l	Replace first value with numeric. Enter "l" in form.		
	del 4,5	Delete last 2 lines.		
	p n,4 p n,5 end	Enter "5" in form. Enter "2" in form. Enter "yes" to save query. Return to AISIM READY.		
17.	Reinvoke FUI with error checking.			
	F f(testin) e(testdb2)	User is asked to continue or abort. User enters "yes". "*" prompt is displayed.		
	del 2 p r,2	Delete second value. Place a resource at 2. Enter "CPUA". Error message is displayed since CPUA does not exist. Enter "CPU1".		
	del 3 p n, 3	Delete third value and replace it with a numeric. Enter "10".		
	end	Return to AISIM READY.		
18.	Modify case2in file in FUI.			
	F f(case2in)	User is asked to continue or abort. User enters "yes". "*" prompt is displayed.		
	del 5	Delete fifth value.		
	p n,5	Enter "ovhd2". Error message is displayed. Enter "3".		
	end	Return to AISIM READY.		
19.	Invoke FUI with error checking.			
	F f(case2in) e(testdb2)	User is asked to continue or abort. User enters "yes". "*" prompt is displayed.		

	FUNCTION/COMMANDS del 1,4 p n,1 p r,2 p n,3	ADDITIONAL INPUTS/ EXPECTED RESULTS Delete first four lines. Enter "2". Enter "CPU2". Enter "20". Enter "8".	TEST RESULTS
	p n,4 end	Enter o. Enter "yes" to save query. Return to AISIM READY.	
20.	Run simulation using Case l data.		
	a p(testdb2)	User is asked to continue or abort. User enters "yes".	
	go	User initiates simulation.	
		Use "end" to exit AUI when simulation completes.	
21.	Change file association	s.	
	edit/edt testdb2.fnm	Edit file associations file. Change lines to: TESTIN CASE2IN.TXT TESTOUT CASE2OUT.TXT Exit editor, saving data.	
22.	Invoke AUI.	·	
	a p(testdb2)	User is asked to continue abort. User enters "yes". "*" prompt is displayed.	
	go end	User initiates simulation. Use "end" to exit AUI when simulation completes.	
23.	Verify output files.		
	type testout.txt	List first output file. File should contain the following values: \$TEST1 PROC1 CPU1 MSG 52	
	type case2out.txt	List second output file. File should contain the following values:	

ADDITIONAL INPUTS/
FUNCTION/COMMANDS EXPECTED RESULTS

TEST RESULTS

STEST2 PROC2 CPU2 MSG 163

2.4.8 Help Editor Interface Test Procedure

This test exercises the commands available in the Help Editor Interface as in 2.1.8.

ADDITIONAL INPUTS/
FUNCTION/COMMANDS EXPECTED RESULTS TEST RESULTS

1. Invoke HEI.

HEI User is asked to continue or abort. User enters "yes". "*" prompt is displayed.

Display help information.

help end

A description of the HEI
end command is displayed.
User enters a carriage
return and the topic level
screen is displayed. User
enters update and a description
of the HEI update command is
displayed. User enters two
carriage returns. "*" prompt

is displayed.

3. Invoke UPD.

U The UPDATE "#" prompt is displayed.

4. Add help.

add note, table-size A form is displayed with the note name and the user enters help information.

5. List help.

l n The available notes are listed.

	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
6.	Change help.		
	chg n,test	A message is displayed informing the user no note named test is available to change. "#" prompt is displayed.	
	chg,n,table-size	A form is displayed with the current help informa- tion. User can change information as desired, and then enter form.	
7.	Save help.		
	s end	The HEI "*" prompt is displayed.	
8.	Display help.		
	help @n,table-size	The information just entered is displayed. User enters two carriage returns.	
9.	Renter UPD.		
	u	"#" prompt is displayed.	
10.	Display help.		
	help delete,topic-name	Display help information on the delete command parameter, topic-name. User enters two carriage returns.	
11.	Remove help.		
	del n,table-size list n end	The table-size note will be deleted. User enters "yes" to save changes and "*" prompt will be displayed.	
12.	Exit HEI		

Return to AISIM READY.

end

2.5 Sample Completed Test Procedure

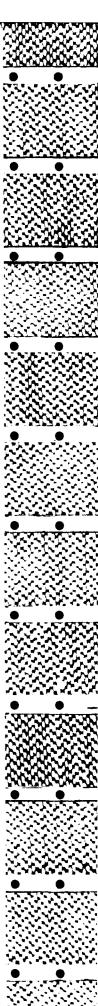
Figure 2-3 shows an example of a test procedure annotated with the results of exercising the procedure. This will be the form used to generate the acceptance test report.

2.6 Certification Statement

The acceptance test report will contain the following certification statement which will be signed by Lt. Michael F. Merriman, Project Officer, Requirements Analysis.

All tests as described in this report have been performed and results have been observed and noted herein.

The test procedures contained in this manual are certified to be acceptable for acceptance testing of AISIM version 5.0.



	FUNCTION/COMMANDS	ADDITIONAL INPUTS/ EXPECTED RESULTS	TEST RESULTS
l •	Invoke Design User Interface		-
	<pre>d p(intgtest) t(term)</pre>	"Term" is replaced by terminal designation for terminal being used. User is asked to continue or abort. User enters "yes". Create data base prompt is displayed. User enters "yes". Data base is copied. "*" prompt is displayed.	Design function invoked.
2.	Edit one of each of the following entity types.		
	e r,restest,new e i,itemtest,new e t,tabltest,new e v,vartest,new e c,contest,new e q,quetest,new e l,loadtest,new	Appropriate entity form is displayed. User enters random data into forms and enters them. "*" prompt is displayed.	Each entity form displayed correctly and data entered.
3.	e s,scentest	Message is displayed indicating that "scentest" does not exist and the user is asked if (s)he wishes to create it. User enters "yes" and test proceeds as in 2 above.	Request to create entity displayed. Form was displayed and data entered.
4.	e, p,proctest,new	Process form is displayed. User enters random data into form and enters it. "#" prompt is displayed.	Process form displayed without query and data entered.
5.	menu	On an HP2647A, HP2648A, or TEK4105 terminal, the list of Primitives is displayed, or on an HP2623 or VT100 terminal, a message is displayed informing the user that the menu will not fit on the screen.	Menu displayed correctly.

Figure 2-3. Sample Test With Results

APPENDIX A

Model Description and Results Verification for TESTDB1.DBF - Run 1



10:23:09 04/21/1987

TESTOBI - RUNI

TEST THE USE OF VARIOUS AUI COMMANDS

GLOBAL CONSTANT DEFINITION....

COMMENT CONSTANT INITIAL WNEWONIC VALUE

WSECONDS PER CHARACTER SERIAL TRANSFER SECS_CHR 187

FILE DEFINITION....

FILE MNEMONIC

COMMENT

TABLE DEFINITION....

GLOBAL VARIABLE DEFINITION....

COMMENT VARIABLE INITIAL WNEWONIC VALUE

MONITOR VARIABLE TO PLOT ROUTE OVERHEAD V ROUTER 0

ITEM DEFINITION

DESCRIPTION

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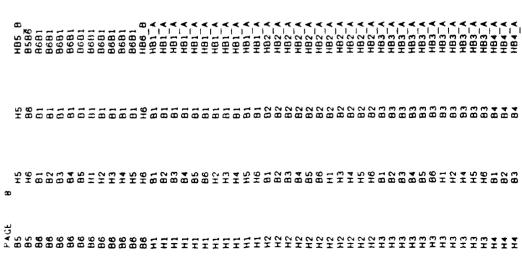
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FROM DEVICE ======= B1 B1 B1

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COMMENT

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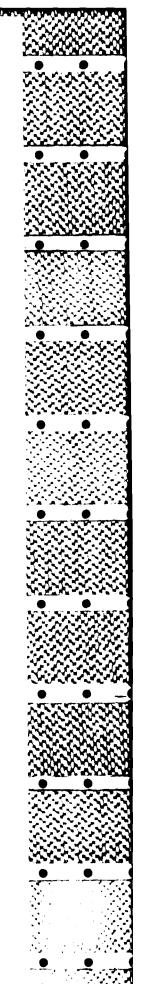
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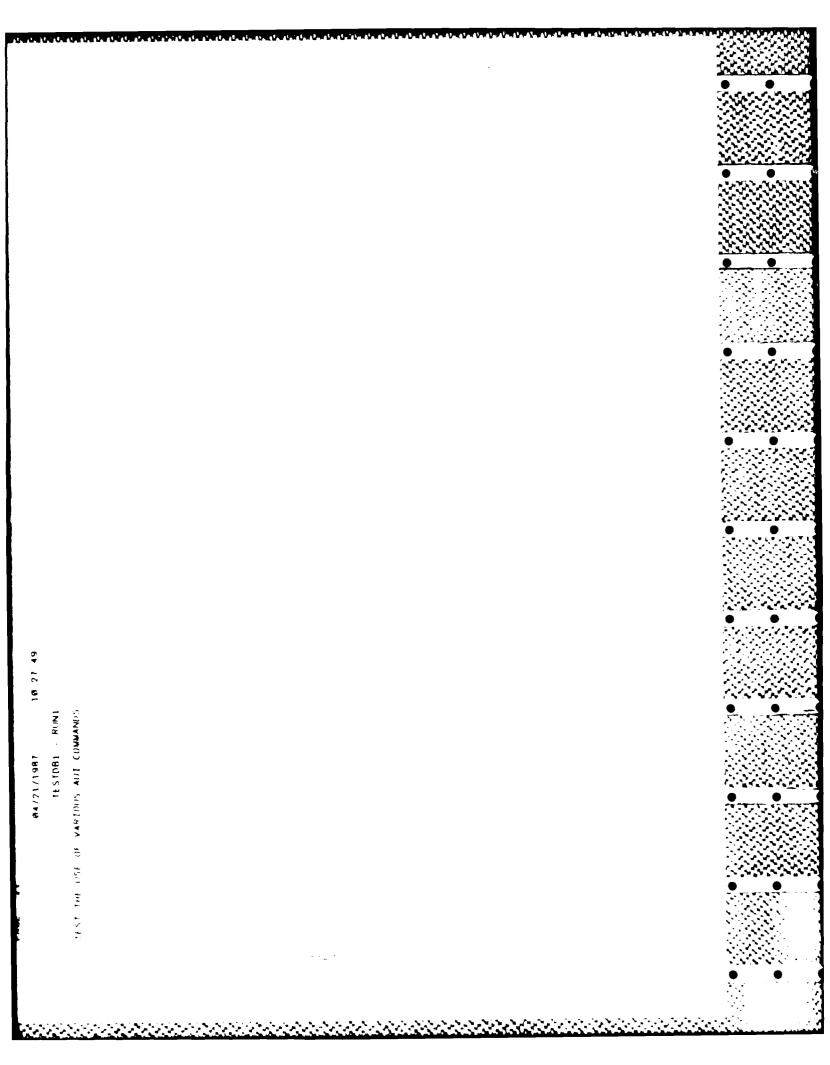
AGE 20

15000 PERCOND PERCONDS

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8 FPRORS WERE DETECTED DURING MODEL INITIALIZATION



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SINULATION TIME : 15000.00000 WSECONDS

CONSTANT REPORT

CURRENT CONSTANT VALUE EXERCATE TRANSPERS SECS_CHR 167 PRES

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15000.00000 MSECONDS

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TOTAL

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*** AMPLES CORRENT... MEAN. ... STD DEV... MINIMUM... MAXIMUM...

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CURRENT CURRENT VARIABLE TYPE VALUE

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PAGE 26 15000.00000 MSECONDS SIMULATION TIME =

RESOURCE REPORT

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CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

MAXIMUM	1.000 12226.422 0.	1.000		67.000
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PAGE 27 IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT WAITING WAIT TIME	CURRENTLY ALLOCATED TD PROCESSES:	PROCESSES CURRENTLY WAITING	RESOURCE	83 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAITING
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	y o								
	-	WAIT TIME			· 60	6	•		
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		PROCESSES CL	CURRENTLY WAITING:	NONE					
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PAGE 29 # IDLE # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES	PROCESSES CU	RESOURCE	8485 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT IIME	CURRENTLY AL	PROCESSES CL

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PAGE 30				RESOURCE	BS # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT WAITING	CURRENTLY TO	PROCESSES CU	RESOURCE	BSB6 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME
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PAGE 34 # BUSY BUSY IIWE	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY AL	PROCESSES CL	RESOURCE	REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	Y # INACTIVE	JE INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CU	RESOURCE	REQUEST TIME HOLD TIME

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CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

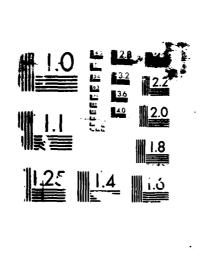
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PROCESSES CURRENTLY

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WAITING: NONE

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CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

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CURRENTLY ALLOCATED

TO PROCESSES: NONE PAGE 39

PROCESSES CURRENTLY WAITING: NONE

MAXIMUM	11 13 13 11 14 14 15 16 18	1.666		69			1.000	6	5			. 60	
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PROCESSES CURRENTLY WAITING: NONE A-41

CURRENTLY ALLOCATED
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PAGE 40 WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES C	RESOURCE	1 455	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING	CURRENTLY A	PROCESSES C	- 11	HBS_A # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE

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PROCESSES CURRENTLY WAITING: NONE

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CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

AGE 43

SIMULATION TIME = 15000.00000 MSECONDS

ACTION REPORT

OF TOTAL.	o .	% TIME OF TOTAL.	•	X TIME OF TOTAL.	564.480
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			TOTAL SAWPLES. SUM WEAN STD DEV MINIMUM MAXIMUM	3855.447 3453.351 2676.740	# AUTO # CALL # OF # NGT # TIMES SCHEDULE SCHEDULE COMPLETE COMPLETE SUSPEND.	DESTR'D ======== 0
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	11		TOTAL SAWPLES.	56 56 4 4 1	AUTO E SCHEDULE = =======	
PAGE 44	SIMULATION TIME	PROCESS REPORT	PROCESS	HAMPROL TOTAL PROCESS WAIT RESOURCE WAIT	SCHEDULE SCHEDULE 761	ITEM HESSER

	FULL AND HALF DUPLEX CHANNEL LOGIC	COMMENT			SET INTERNAL NODE CURRENT		GET DESTINATION NODE		SET NEXT NODE TO DESTN		GET CHANNEL TO NEXT NODE				WHAT IS CHANNEL RATE?		MESSAGE LENGTH	
	Y NE												ALL					
	OUPLEX CH	PARM	() () () () ()		CNODE		TNODE		TO NODE	,	TO NODE	ı	-		RATE		LENGTH	
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			START	GIVEN	ASSIGN		ASSIGN		ASSIGN		ASSIGN		ALLOC		ASSIGN		ASSIGN	
-	CHANPROC	ENTRY	761	781	761	761	761	761	761	761	761	761	761	761	441	441	441	441

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DELAY DUE TO TRANSFER TIME USG RESIDES IN NEXT NODE SET INTERNAL NODE REGISTER FREE UP CHANNEL AFTER XFER ROUTE MESSAGE TO NEXT NODE	MINIMUM MAX	ν () 	i	310 DEV	IPTION SERVE AT DESTINATION OF MESSAGE	COMMENT	KODE	
	STD DEV M.	TE SUSPEN	: 10	MAXIMOM	MESSAGE		CURRENT NODE	
VLENGTH NE AHD NE ME	MEAN	16 16	TIME		NATION OF	PARM		
VSPEED 6 VSPEED 6 VSPEED 6 VSPEED 6 VM_OVHD CONSTANT VM OVHD MSECONDS RESUME NXT NODE CHODE NXT NODE CHODE CHANNEL 1 NODEPROC WAIT	SUM.	# CALL # OF SCHEDULE COMPI ======= ===== 18 RECEIVED SEN'	HOLDING	MEAN	ION	RW PARW	ALL NO MSG CNODE	
COMPARE VSPI COMPARE VSPI ASSIGN VM ENTRY ENTRY CONV KFER_OH CONV ASSIGN NXTA ASSIGN NXTA ASSIGN NXTA CALL CONV GIVEN NGG	TOTAL SAMPLES. ====================================	AUTO SCHEDULE ======= 0 CREATED	1f	11	DESCR ===== PROCE	!!		
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क्षक्ष ताता के	PROFEST				PRO.	COUNT		

IF RESPONSE, DESTROY	EXECUTE THE CALLED PROCESS SET PRIORITY FOR REQ PROC WAIT UNTIL COMPLETE	DEALLOCATE CURRENT NODE NO RESPONSE REQ -> DESTROY CHANGE MSG RESPONSE TYPE SWITCH FROM AND TO NODES	CURRENT NODE IS FROM NODE RETURN MESSAGE TO ORIGIN TERMINATE MESSAGE AT DEST TERMINATE MSG	STD DEV MINIMUM MAXIMUM ================================	# TIMES FE SUSPEND.
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PAGE 46 16 COMPARE NS 16 ALLOC ST	ASSIGN ASSIGN CALL	GIVEN RETURN DEALLOC COMPARE ASSIGN ASSIGN	0 ASSIGN MS 0 CALL CH 0 GIVEN MS 0 GIVEN MS 0 GIVEN MS 16 DESTROY MS 16 END ENTRY	PROCESS SAMPLES. S ===================================	SCHEDULE SCHEDULE SCHEDULE SCHEDULE 342 0 ITEM CREATED MSG 342

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e [;]	DESCRIPTION GENERATE A PROCESS REQUEST WESSAGE AND INITIATE I/O	PARM	MSG_TYPE MSG_						•				3013.944 37	# NOT TE COMPLETE	DESTR'O	TWE MINIMUM WA
•	CESS REQUE	PARK 					TAIONE		WAIT		MEAN			# OF LE COMPLETE ===================================	VED SENT	- :
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	98 11 10	OPCODE:	GIVEN	CREATE	ASSIGN	ASSIGN	ASSIGN	ASSIGN	CALL	END	TOTAL SAMPLES.		,	# # AUTO JLE SCHEDULE	CREATED	**
47 WSG	S 11	ENTRY									25	20C TOTAL	PROCESS WAIT	TOTAL # SCHEDULE	ITEM ======= MSG	ITEM
PAGE	PROCESS ======= WRS	COUNT	342	342	34.6	342	342	342	342	16	PROCESS	NODEPROC	PRC			

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111	A32168	MSG LNTH	ב ב ב		- ME3374	
777	EVAL	OVERHEAD	•		COMPUTE PRO	COMPUTE PROCESSING DELAY
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761	GIVEN	NSG END	188			
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APPENDIX A

Results Verification for

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SECOND RUN WITH CHANGED VALUE OF SECS_CHR

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CONSTANT REPORT

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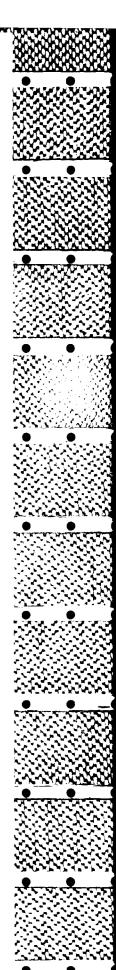
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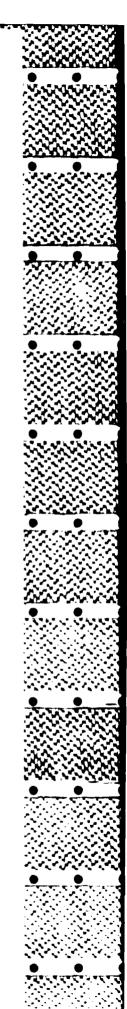
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PROCESS REPORT

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APPENDIX B

STATISTICAL STATISTS STATISTS STATISTICAL

Model Descriptions for Simulator Acceptance Tests

TESTDBA.DBF through TESTDBF.DBF

APPENDIX B

Test 1 Model - File Verification

TESTDBA.DBF Listing

04/22/1987

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TESTDBA

TEST ITEMS, RESOURCE PREEMPTION, CALL PROCESS, AND ACTION RESTART LOGIC

GLOBAL CONSTANT DEFINITION....

CONSTANT INITIAL WNEWONIC VALUE

COMMENT

FILE DEFINITION

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FILE WNEWONIC

COMMENT

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TABLE DEFINITION ...

GLOBAL VARIABLE DEFINITION....

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Ø ERRORS WERE DETECTED DURING MODEL INITIALIZATION

APPENDIX B

Test | Model - File Verification

TESTDBB.DBF Listing



Section 2

SCORE CONTRACTOR

CONTRACTOR CONTRACTOR STATEMENT PROPERTY CONTRACTOR DESCRIPTION OF STATEMENT CONTRACTOR OF STATEMENT OF STATE

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TESTOBB

TEST KEYWORDS, PARAMETER PASSING, AND READ/WRITE.

GLOBAL CONSTANT DEFINITION.

CONSTANT INITIAL MNEMONIC VALUE

COMMENT

FILE DEFINITION

FILE WREWONIC

FILE TO READ FROM FILE TO WRITE TO COMMENT FILE1 FILE1 FILE2

TABLE DEFINITION.

GLÜBAL VARIABLE DEFINITION....

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CLOBAL VARIABLE INITIALIZED TO RESOURCE

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PAGE 2 ITEM DEFINITION

QUEUE DEFINITION

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RESOURCE DEFINITION

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ARCHITECTURE LEGAL PATH DEFINITION

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ADELAY BDELAY REPLY

TRANSFER

PROCESS DEFINITION

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DESCRIPTION

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APPENDIX B

Test 1 Model - File Verification

TESTDBC.DBF Listing

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TESTOBC

TEST BATCH MODE PROCESSING

GLOBAL CONSTANT DEFINITION....

CONSTANT INITIAL MNEMONIC VALUE

COMMENT

FILE DEFINITION. . . .

TABLE DEFINITION....

GLOBAL VARIABLE DEFINITION....

AVERAGE LENGTH OF WESSAGES
TRANSMISSION & RECEIVING TIMES IN SECONDS PER BYTE COMMENT 300 VARIABLE INITIAL WNEWDNIC VALUE GAMMA1

ITEN DEFINITION.

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GAMMA2

DESCRIPTION 8000000000 ITEM

MESSAGE ITEM SENT FROM PRODUCE TO CONSUME INITIAL

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SL ENGTH LENGTH

QUEUE DEFINITION.

COMMENT MAXIMUM SIZE QUEUE NNEMONIC

INFINITE BUFFER FOR MESSAGES AWAITING PROCESSING BUFFER

RESOURCE DEFINITION....

INITIAL # UNITS RESOURCE TOTAL MNEMONIC # UNITS

DESCRIPTION SEWA 1

LOCATION OF TRANSMITTING PROCESS STATION1 1

LOCATION OF RECEIVING PROCESS STATION2 1

ARCHITECTURE LEGAL PATH DEFINITION

NEXT DEVICE TO DEVICE FROW DEVICE

ACTION DEFINITION.

COMMENT
DELAY AT RECEIVE TO PROCESS WESSAGE
DELAY AT RECEIVE TO DELIVER WESSAGE
DELAY AT TRANSMIT TO DELIVER WESSAGE TO BUFFER ACTION MNEWONIC SESSESSE READ MSG SENDING

PROCESS DEFINITION....

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START TEST REMOVE COMPARE ASSIGN EVAL READ_WSG DESTROY ENTRY END RTABLES OF R	BUFFER FQ ABORT		PARM SESSES ALL ALL	
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PAGE 37ART TEST TEST TEST REMOVE COMPARE ASSIGN EVAL EVAL READ_WSG DESTROY ENTRY END GLUBAL VARIABLES OF SECTION TO SEMA SEMO GLUBAL VARIABLES OF SECTION TO SEMA SEMO TO SEMA SENDING EVAL SENDING EVAL SENDING FILE DEALLOC END	STATION2 SEMA FIRST WSG G MSG MSG MU ALPHA ALPHA CONSTANT SECONDS MSG	PROCESS 2 M 6 R 1 PROCESS 1 P		
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SCENARIO DEFINITION....

PRIORITY ======== 0

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PROCESS SCHEDULE
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0 ERRORS WERE DETECTED DURING MODEL INITIALIZATION

APPENDIX B

Test | Model - File Verification

TESTDBD.DBF Listing

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TEST VARIABLE TIME UNITS, MESSAGE ROUTINE, AND RESOURCE LOGIC

GLOBAL CONSTANT DEFINITION.

COMMENT CONSTANT INITIAL MNEMONIC VALUE

DEFAULT IS NO TRACE ON V_TRACE (

FILE DEFINITION . . .

COMMENT MNEMONIC

TABLE DEFINITION....

GLOBAL VARIABLE DEFINITION....

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INTERVAL BETWEEN SIGNALS
INTERVAL BETWEEN SIGNALS
AVERAGE SEEK TIME FOR DISK IN MILLISECONDS
SWITCH-OTHER NODE CHANNEL SPEED IN MS/BYTE COMMENT VARIABLE INITIAL WNEMONIC VALUE ABORATE

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ITEM DEFINITION

DESCRIPTION

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INITIAL VALUE

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CHB_A	ATTR. NAME EEEEEE	INITIAL VALUE ABBERBER VRATE	RESOURCE	FOR	CHANNEL	CONNECTOR
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SWITCH BETWEEN SWITCH 1 & 3 AND HQ INITIAL M_ROUTE ATTR. NAME SW2

SWITCH BETWEEN SWITCH 1 & 2 AND CHQ M_ROUTE B 1 ATTR. NAME SW3

M_ROUTE 8

INITIAL VALUE

ARCHITECTURE LEGAL PATH DEFINITION

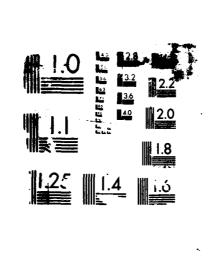
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	ASSIGN	SCHÄNNEL	TO_NODE	GET CHANNEL TO NEXT NODE	
	ALLOC	CHANNEL	1 ALL	OBTAIN CHANNEL FOR XFER	
	ASSIGN	CHANNEL	RATE	WHAT IS CHANNEL RATE?	
	ASSIGN	WSG	LENGTH	MESSAGE LENGTH	
	EVAL	VI OVHD		CALCULATE TRANSFER TIME	
	XFER_OH	CONSTANT VM DV	VM OVHO	DELAY DUE TO TRANSFER TIME	
	ASSIGN	MSECONDS NXT_NODE	RESUME	MSG RESIDES IN NEXT NODE	

PAGE	10 ASSIGN	NXT NODE	lat		SET INTERNAL	SET INTERNAL NODE REGISTER	~
	DEALLOC CALL GIVEN END	-	MAIT	9	FREE UP CHAN ROUTE MESSAG	FREE UP CHANNEL AFTER XFER ROUTE MESSAGE TO NEXT NODE	PC 114
LOCAL	LOCAL VARIABLES OF PROCESS CHANPROC	OF PROCES	S CHANPRO	ي			
PROCESS	1 MSG (I) 2 TO NODE 3 NXT NOD 5 VSPEED 6 VLENGTH 7 VM TO VID PROCESS	(F)	2 TO NODE 6 VLENGTH		3 NXT NODE 7 VM_DVHD	4 CHANNEL 8 XFER OH	(4)
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	ALLOCATE CURRENT NODE	EXECUTE THE CALLED PROCESS	SET PRIORITY FOR REQ PROC	PRIORITY WAIT UNTIL COMPLETE	EALLOCATE CURRENT NODE	NO RESPONSE REQ -> DESTROY	CHANGE MSG RESPONSE TYPE	SWITCH FROM AND TO NODES	CURRENT NODE IS FROW NODE	RETURN MESSAGE TO ORIGIN	•		TERWINATE MESSAGE AT DEST	TERWINATE MSG		
	V Y	u		PRIORITY W	٥		TROY			•				-		
	-	RPRUC	RPROCPRI	WAIT	-	TYPE		TYPE	TNOOF	FNODE		100				
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_	VI LOC	ASSIGN	ASSIGN	CALL	RETURN DEALLOC	COUPARE	ASSIGN	ASSIGN	ASSIGN	כשרר	GIVEN	BRANCH	ENTRY	DESTROY	ENTRY	2
PAGE													DESTROY		END	

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	V21554	V SPEED	STEED		MARC VISA	, sreeu = v	Jareen
	EVAL	XFERTINE			TRANSFER	TRANSFER TIME CALCULATED	ATED
		LENGTH/V SPEED	SPEED				
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		SPRIORTY					
	ASSIGN	DISK	SEEK		MAKE SEEP	WAKE SEEKTIME = SEEK	~
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	7000	7002178	CEFKTTUE	CECKTYME	TIME FOR	INTERPORT CEEKTIME CEEKTIME TIME END CEEK IC CONCINSED	

CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE

LOCAL VARIABLES OF PROCESS HQ_REQ	GIVE N END	PL ANS 200	СНД	S reqresp MSG	
1 MSG	PLES OF	VARTABLES OF PROCESS HORRED	HO REQ		
		2 MR	S	(P) 3 F	3 PLANS (P) 4 CHQ
		DESCRIPTION	NO.		
MARS STATE OF THE	11 15 11 11 11 11 11	GENERATE	A PROCESS	REQUEST	GENERATE A PROCESS REQUEST MESSAGE AND INITIATE I/O
	OPCODE		PARM	PARW	COMMENT
ST ST	START	ALL PROCESS	NO NO PRIORITY TO MODE	MSG TYPE	10 10 10 10 10 10 10 10 10 10 10 10 10 1
CR	CREATE ASSIGN	MSG_LNTH		7	CREATE MESSAGE SET MESSAGE LENGTH
AS	ASSIGN	PROCESS	LENGIA		SET PROCESS
AS	ASSIGN	PRIORITY	KPRUC.		SET PRIORITY
¥	ASSIGN	TO NODE	KFRUCFK1		SET DESTINATION
AS	ASSIGN	MSG TYPE	TNUDE		SET WESSAGE TYPE
CALL	, Z	MSG NODEPROC MSG	TYPE WAIT	9	EXECUTIVE SERVICING OF MSG
LOCAL VARIABLES	BLES OF	OF PROCESS MRS	MRS		
1 PROCESS (X) 2 PRIORITY 5 TO_NODE 6 MSG (1)	SS (x)	() 2 PRIC 6 MSG	IORITY	11 11	3 MSG TYPE 4 MSG_LNTH 7 NODEPROC (P)
PROCESS MNEMONIC		DESCRIPTION	No		
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ENTRY OP	OPCODE	PARW	PARM	PARM	COMMENT
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PAGE

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	ENT NODE	TE OF NODE	ENGTH	COMPUTE PROCESSING DELAY	ENT NODE	TING	RELEASE C NODE TO OTHERS		FORWARD MSG TO CHANNEL	AT DESTINATION	SWITCH MESSAGE			1 MSG (1) 2 C NODE 3 RT OVHD 4 MSG LNTH 5 OVERHEAD 6 RÖUTE_OH (A) 7 CHÄNPROC (P) 8 DESTPROC	 1 1 1 1 1 1 1 1	 			TH = V_LENGTH	EVALUATE MSG PROCESS TIME	TIME USED TO FORMAT PLANS	CALLING PROCESS DISK_OP	
	CURR	G RA	GE L	ROCE	CURR	ROC	NOD		26	T 0F	WITC			(P)	1	1 1 1		 	LENG	MSG	10	ROCE	
	INDICATE CURRENT NODE	PROCESSING RATE	GET MESSAGE LENGTH	COMPUTE P	ALLOCATE CURRENT NODE	DELAY FOR ROUTING	RELEASE C		FORWARD N		CONTEXT			3 RT OVHD 7 CHÄNPROC	1 3 4 1 1 1	REQUEST FOR PLANS FROM CHQ	COMMENT	## ## ## ## ## ## ## ## ##	MAKE MSG LENGTH	EVALUATE	TIME USED	CALLING P	
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					ALL		FO	CONTROL	6		0			==== (Y)	 	FROM	PARM	 				10	
	CNODE	M_ROUTE	LENGTH	01 0740	- 1	OVERHEAD RESUME	1 CNOOF	TNODE	WAIT	160	WAIT		NODEPROC	C NODE ROUTE_OM (NO	OR PLANS	PARM	======================================	LENGTH	:	V TIME	WAIT	DK1
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PAGF 14										IONTRO		END	LOCAL VAR	1 MS(5 0VE	PROCESS	PLANS	ENTRY	# # # # #					

LOCAL VA	LOCAL VARIABLES OF PROCESS PLANS	F PROCES:	S PLANS			1	1 1 1	
1 WSG 5 DISH 5 DISH	1 WSG (F	(F) 6 [1 WSG (1) 2 V LENGTH 3 V TIME 4 FORMAT 5 DISK OP (P) 6 DR1 (R)	(R)	V_TIME	4	FORMAT	3
MNEMONIC	! ! ! !	DESCRIPTION	DESCRIPTION		19 11 11 11 11 11 11	11 11 11 11 11 11	66 11 11 11 11 11	
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LOAD WNEWONIC ======= HQLOAD	PROCESS MNEMONIC BERRER AB DATA AB_REQ BERRER		SCHEDULE MAX # WETHOD WEAN DELTA UNITS PRIORIT 60 INTERVAL ABDRATE 60 EXPONENT ABRRATE MINUTES 10 MODES MINUTES 10 MINU	MEAN ABORATE ABRRATE CHQ	DELTA	UNITS ====================================	PRIORITY 110 5	

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PAGE	

0 ERRORS WERE DETECTED DURING MODEL INITIALIZATION

APPENDIX B

Test 1 Model - File Verification

TESTDBE.DBF Listing

09:54:33

04/21/1987

TES TOBE

TEST ARITHMETIC FUNCTIONS.

GLOBAL CONSTANT DEFINITION.....

COMMENT CONSTANT INITIAL WNEWONIC VALUE

FILE DEFINITION....

COMMENT FILE MNEMONIC

TABLE DEFINITION....

DESCRIPTION TABLE MNEWONIC TYPE SESSESS SESSES ALPHATBL A

ALPHA TABLE TEST FOR CYCLING THROUGH OFDS 11 13 14 11 11 11 13

Y-VALUE ======= 0FD8 0FD9 0FD9 8 1 3 1 H H H H X-VALUE 66 63 16

DESCRIPTION TABLE WNEWONIC TYPE

CONTINUOUS TABLE	LUE	RIPTION	ALUE ===== 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TEST	### ##################################	DESCR	7-7- 10.00 10.00 100.00
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PAGE HERRHER TOON		TABLE MNEWONIC **===== TDIS	
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GLOBAL VARIABLE DEFINITION....

VARTABLE	INITIAL	
MNEMONIC VALUE	VALUE	COMMENT
11 11 11 11 11	11 11 11 11	
VABS		TEST EVAL ABSOLUTE RESULT
VADD	10.0	TEST EVAL ADD RESULT
VARCOS		TEST EVAL ARCOSINE RESULT
VARCSIN		TEST EVAL
VARCTAN	-1.14169	TEST EVAL
VBETA		
VBIN	9.6	TEST EVAL BINOWIAL RESULT
VCOMP 1	0.0	TEST COMPLEX EVALUATION
VCOMP2	0.0	TEST COMPLEX EVALUATION

1 TEST COMPLEX EVALUATION
1 TEST COMPLEX EVALUATION
1 TEST EVAL COSINE RESULT
1 TEST EVAL CONTINUOUS TABLE RESULT
1 TEST EVAL DIVIDE RESULT
1 TEST EVAL DIVIDE RESULT
1 TEST EVAL EXPONENTIAL RESULT
1 TEST EVAL EXPONENTIAL RESULT
1 TEST EVAL EXPONENTIAL RESULT
1 TEST EVAL LOG I B RESULT
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1 TEST EVAL LOG E RESULT
1 TEST EVAL LOG E RESULT
1 TEST EVAL NUOLTIPLY RESULT
1 TEST EVAL POWER RESULT
1 TEST EVAL POWER RESULT
1 TEST EVAL POWER RESULT
1 TEST EVAL RANDOM RESULT
1 TEST EVAL SINE RESULT
1 TEST EVAL SINE RESULT
1 TEST EVAL SINE RESULT
1 TEST EVAL RANDOM RESULT
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1 TEST EVAL SURER RESULT
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1 TEST EVAL UNIFORM RESULT
1 TEST EVAL WEIBULL RESULT COMPLEX EVALUATION VSIN 0.909297 II VSQRT 10.0 71 VSUB 10.0 71 VSUB 12.18604 71 VUNIFORM 10.0 71 2.0 4.695176 10.0 10.0 56.6 10.0 50.0 100.0 100.0 110.0 VCTABLE VOIV VOTABLE VCOMP4

ITEM DEFINITION ...

QUEUE DEFINITION....

COMMENT RESOURCE DEFINITION.... QUEUE MAXIMUM MNEMONIC SIZE B-61

TEST RESOURCE 1 DESCRIPTION 18 10 11 11 11 11 11 11 11 11 11 11 11 INITIAL # UNITS INITIAL VALUE ATTR1 H H H H H H TOTAL # UNITS ĀTTR. NAME RESOURCE T MNEWONIC #

110N

ALEXI VECESSAR SOFTESCA VECESCO VECESC

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;		TESTLT				LTTEST				TESTGT				GITEST				TESTLE			LETEST1				LETEST2		1	TESTGE			CETEST1				GETEST2				TESTEND

LOCAL VARIABLES OF PROCESS OFD:

DESCRIPTION FEETERS FEETERS FEETERS FEETERS FEETERS FUNCTIONS TEST INTERVAL SCHEDULE AND EVAL TRIG FUNCTIONS	
PAGE 6 S LOCAL3 PROCESS WNEWONIC DEDIG	

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		L0G10(100.0)	(0.1			
	EVAL	VEXP10				
	1	10.0. VL0G10	0010			
	EVAL	VLOGE				
		LOGE (100.0)	(6)			
	FVAL	VEXPE				
		2.718281 • • VLOGE	••VLOCE			
	EVAL	NISA				
		SINE(2)				
	EVAL	VARCSIN				
		ARCS INE ((SIN)			
	EVAL	VCOS				
		COS INE (2)	_			
	EVAL	VARCOS				
	:	ARCOSINE (VCOS)	(VC0S)			
	EVAL	VIAN				
		TANGENT (2)	2			
	EVAL	VARCTAN	147			
	ENO	שארושוא (אינישוא)	()			
	!					

19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	4 VEXPE 8 VARCOS
OCESS OFDIØ	3 VLOGE 7 VCOS
F PROCESS OFDIO	2 VEXP10 2 VEXP10 6 VARCSIN 7 VCOS 8 VARCOS 10 VARCTAN DESCRIPTION TEST ALLOCATE & DEALLOCATE RESOURCE
GLOBAL VARIABLES OF PROCESS OFDIB	1 VC010 1 VC010 6 VSIN 9 VTAN PROCESS WNEMONIC ====================================

		1	TEST ALLOCATE		
PARM	****		٩٢٢		
PARM	11 11 11 11 11 11 11 11	2	1		100.0
PARW	B B B B B B B B B B B B B B B B B B B	ALL	RES1	\$PRIORTY	CONSTANT 100.0
OPCODE PARM	11 11 11 11	START	ALLOC		PROCESS
ENTRY	## 11 11 11 11 11 11				

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CALL	ENTRY	T VMNA			SET UP RESOURCE UTIL	UTIL
,	CALL	0FD11	NOWAIT	9.0	SCHEDULE A NOWAIT PROCESS	T PROCESS
	PROCESS	LOGNORML	10.0	2.0	LUUP 4 IIMES	
	10101	SECONDS	RESUME			
	ASSIGN	VNIDLEG	MIDLEY			
	ASSIGN	RESI	NBUSYQ			
	ASSIGN	RES1	NWAITQ			
	9	VNWAITQ				
	Z Z					
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1 RES1	S1 (F	(R) 2 OF		(P) 3	(R) 2 0FD11 (P) 3 PROCESS (A)	11 11 11 11 11 11 11
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PROCESS		DESCRIPTION	2		•	
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	,	SECONDS	RESUME			
	Ç.					
LOCAL VA	VARIABLES OF PROCESS	PROCESS	0FD3		LOCAL VARIABLES OF PROCESS OFD3	
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BERRORS WERE DETECTED DURING WODEL INITIALIZATION

APPENDIX B

Test 1 Model - File Verification

TESTDBF.DBF Listing

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TEST ERROR HANDLING OF ARITHWETIC EXPRESSIONS

GLOBAL CONSTANT DEFINITION.....

CONSTANT INITIAL MNEMONIC VALUE

FILE DEFINITION....

COMMENT

MNEMONIC

TABLE DEFINITION....

TEST DISCRETE TABLE DESCRIPTION 0

Y-VALUE 60.0 100.0 1000.0 200.0 300.0 400.0 X-VALUE

TEST RESOURCE 1 COMMENT
TEST COMPLEX EVALUATION
TEST COMPLEX EVALUATION ARCHITECTURE LEGAL PATH DEFINITION GLOBAL VARIABLE DEFINITION.... INITIAL VALUE COMMENT RESOURCE DEFINITION.... ACTION DEFINITION.... TO POST OF THE POS ATTRI QUEUE DEFINITION. MAXIMUM SIZE ATTR. VARIABLE INITIAL MNEMONIC VALUE ITEM DEFINITION VCOMP1 0.00 VCOMP3 0.00 VCOMP4 0.00 VCOMP6 0.00 VCOMP6 0.00 FROW DEVICE QUEUE A ACTION MNEMONIC B-76

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EVAL VCOMPA EXPONENT(1) 1015(2)) #### ERROR - A VALIO EXPRESS	VCOMP4 EXPONENT(10.0) + (RESI[ATTR2 IDIS(2)) A VALID SERESSION IS PRECEDED OR FOLLOWED BY AN INVALID SERIESTINE
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LOAD

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APPENDIX C

Results Verification for

TESTDBA.DBF through TESTDBF.DBF

APPENDIX C

Results Verification for

TESTDBA.DBF

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TEST ITEMS, RESOURCE PREEMPTION, CALL PROCESS, AND ACTION RESTART LOGIC

PAGE 18

SIMULATION TIME = 100.00000 SECONDS

VARIABLE REPORT

NUMERIC VARIABLES...

NON-NUMERIC VARIABLES...

CURRENT CURRENT VARIABLE TYPE VALUE

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AGE 24

SIMULATION TIME = 100.00000 SECONDS

PROCESS REPORT

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DESCRIPTION

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ES. SUM	. 0	. 60	0	TO # CALL	6			. 6	<i>6</i> 6	PROCESS HOL	11 O	ით	თთ		T0	11	61	6.0	DESCRIPTION	H	PARM	ALL	AITEM4
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91							
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16	DELAY	CONSTANT					
18		SECONDS	RESUME				
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15	DELAY	CONSTANT	_				
15		SECONDS	RESUME				
15	DEALLOC	CPUI	~				
15	DELAY	CONSTANT	-				
15		SECONDS	RESUME				
15	DEALLOC	CPUI	-				
5.		CONSTANT	1				
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-	1014					
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TOTAL	15	75.888	5.000	.	5.000	6.888
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TIMES

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199	- -	DELAY	CONSTANT	1				
9 9		DEALLOC	CPU2	1 1				
18	-		SECONDS	RESUME				
15 15	- -	DEALLOC DELAY	CPU2 CONSTANT					
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15	_	ENO						
PROCESS	11 11 11 11 11	TOTAL SAMPLES.	. SUM	WEAN	. #I	- 11 - 13 - 11	INIMUM	MAXIMUM
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RESOURCE	E WAIT	-	8 30.000		8. 1.875	1.900	 	6.000 6.000
⊢ S	TOTAL # SCHEDULE	# AUTO E SCHEDULE	# CALL E SCHEDULE		# NOT	# TIMES	se.	
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COUNT ENTRY	# # #	OPCODE	PARW	PARM	PARM	COMMENT	COMMENT	14 15 11 12 11 11 11

Ą.		STD DEV MINIMUM MAXIMUM	666	# NOT # TIMES COMPLETE SUSPEND.	DESCRIPTION *	COMMENT
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APPENDIX C

Results Verification for

TESTDBB.DBF

PAGE

04/20/1987

TEST KEYWORDS, PARAMETER PASSING, AND READ/WRITE.

C-31

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SIMULATION TIME =

100.00000 SECONDS

VARIABLE REPORT

NUMERIC VARIABLES...

NON-NUMERIC VARIABLES...

	SECONDS	
	100.00000	
	п	
	TIME	
!	SIMULATION	

	MAX		
	MINIMUM		6.6
	STD DEV MINIMUM	6.366 6.	0.300 4.714
	CURRENT WEAN	6.968 6.00 6.00	9.100 3.333
	CURRENT	1.666	s i
	TOTAL NUMBER	6	m m
RESOURCE REPORT	RESOURCE	A # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME

1.000

1.000 0.

CURRENTLY ALLOCATED TO PROCESSES: NONE INTO WAIT
OUT OF WAIT
WAITING
WAIT TIME

INACTIVE

PROCESSES CURRENTLY WAITING: NONE

MAXIMUM	1.606 6. 6.	ဗ်ဇ်	6	.
CURRENT MEAN STD DEV MINIMUM MAXIMUM	1.000 6. 0.	<i>9 6</i>	6	
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CURRENT	1.666	6	6	<i>©</i>
TOTAL NUMBER	•			
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			MAXIMUM	1.000 ?. 0.			 • •			MAXIMUM	1.666 6. 6.		
			MAXIW							MAXIM			
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6			STD DEV		6 . 6	6	6 6			STD DEV	999	<i>e</i> , <i>e</i> ,	e.
•			MEAN	1.698 6. 6.	e e	6	 • •			MEAN	3.606 60.	÷ •	
	NONE	NONE	CURRENT	1.000	ø	6	•	NONE	NONE	CURRENT	1.606	.	•
	ALLOCATED PROCESSES:	RRENTLY WAITING:	TOTAL NUMBER	6	00		66	LOCATED OCESSES:	RRENTLY WAITING:	TOTAL NUMBER	6	00	
PAGE 11 WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES	PROCESSES CURRENTLY WAITING:	RESOURCE	REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING	RESOURCE	C1 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE

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E 12 INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING:	RESOURCE	REQUEST HOLD	INTO OUT OF BUSY	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES	
PAGE	J	a.	RESOL	CHNL	J		J	•	u.	
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PAGE 13

SINULATION TIME = 100.00000 SECONDS

ACTION REPORT

ACTION	TOTAL Samples	WEAN	STD DEV	MINIMUM	MAXIMUM	OF TOTAL.
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ACTION	SAMPLES	MEAN	SID DEV	MINIMOM		
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		6 0	•	e (• •	
DELAY TIME		.	.	S		
WASTED TIME		69	•	•	•	
	TOTAL			,		X TIME
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SEFUL	-	10.000		10.000	_	10.000
DELAY TIME				٠ و		
	50		•	<i>e</i>		
	TOTAL					% TIME
ACTION		MEAN	STD DEV	MINIMOM.	MAXIMUM	UF 101AL.
TRANSFER			,	,	,	4
USEFUL TIME		50 63	2 G	. e		;
	- 60	í s	•	· •	<i>6</i>	

	SECONDS
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	11
	TINE
PAGE 14	SIMULATION TIME

PROCESS REPORT

MAXIMUM				
INIMUM	10.666	. o	s o	11 60
STD DEVN		6 6 	T # TIME	destre seren
SAMPLES. SUM WEAN STD DEV WINIMUM WAXIMUM	10.000	e e	TOTAL # # AUTO # CALL # OF # NGT # TIMES SCHEDULE SCHEDULE SCHEDULE COMPLETE COMPLETE SUSPEND.	
SUM	10.000	e e	# CALL #	11 0 11 0 11 0
SAMPLES.		© M	# AUTO SCHEDULE	******
PROCESS	APROC TOTAL	PROCESS WAIT RESOURCE WAIT	TOTAL # SCHEDULE	" " " "

DESCRIPTION

PROCESS SEESESSES

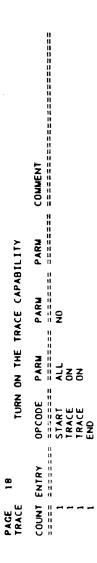
COUNT

COMMENT	TEST SCNODE IN ALLOC CONTX	TEST SCLOCK IN ACTION WEAN		TEST ASSIGNMENT OF SCNOOL	TEST ASSIGNMENT \$CNODE	TEST READING OF SCHODE	WRITING OF SCNODE	TEST PROCESS TO LOCAL	TEST SNODE EVALUATION	SNODE GLOBAL TO LOCAL	10E	TEST ASSIGNMENT & COMPARE
N	SCN00	\$CL0C		ASSIG	ASSIG	READI	WRITI	PROCE	SNODE	SNODE	TEST SNXTNOOE	ASSIG
		TEST		TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
PARM												EQ
PARM		SCLOCK	RESUME 6	NE SUME		EOF			NEXT	BPROC	EPROC	
PARM		SPRIORTY CONSTANT	CONSTANT	SCNODE SCNODE	SCNODE	FTLE1	FILE2	BPROC	SNODE	SNODE	SNODE	L83 L83
OPCODE	START	ADELAY	ADELAY	ASSIGN	ASSIGN	READ	WRITE	ASSIGN	ASSIGN	ASSIGN	ASSIGN	COMPARE
ENTRY	1											

		TEST SNXTNODE			TEST SNXTNODE TO LOCAL			TEST SLINK TO LOCAL RES.	TEST \$LINK TO LOCAL	TEST SLINK GLOBAL		TEST COMPARE CONIXI SCHOOL		SOL OF BOOMS INSTRUCT 1931	LEST CONTEXT *CNODE TO LOC		LAGO 10 BOOMS TVOTINGS TORI	TEST CONTEST *CNODE-GLOBAL		TEST ENYTHONE CLOBAL - LOCAL	ובין פועינאסטב פרספער-רטיער		TEST SLINK COMPARE			TEST ASSIGN STINK			AVAILABILITY OF SLINK		THE COLUMN THE PARTY	SMIICH BOST FLAG ON CHNL	TEST READING ALL ATTRIBUTE	TEST WRITING SPEED ATTR OF	
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,	166	181	- B2			100		6 0	LB3	V NEXT	I		100			100			100			100			100			100	A7	100		-	EOF	=	SPEED
	ź	SNXTNODE	LB3	V NEXT	LB3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			SLINK	L2 CHNC SLTNK	V CHNL	SCNODE SCNODE	A1	0000	SCNODE	A2		V CNODE	¥3	CATVIA	V_XTND	74	NH.	L2_CHNL	A5_	NHO >	LT CHNL	_94	L2 CHNL			SPRIORTY	FILEI	FICE2	L2_CHNL
	BRANCE	ASSIGN	ACCTON	5	COMPARE	BRANCH	ENTRY	ASSIGN	ASSIGN	ASSIGN		COMPARE	BRANCH	ENTRY	COMPARE	BRANCH	ENTRY	CUMPANE	BRANCH	COMPADE		BRANCH	u.	,	_	COMPARE		r	TEST	Ξ.		ALLUC	READ	WRITE	
PAGE 15	5	•		4 -4		~ 62	1 N2	 .	-				. 0	1 ¥ 1 .		69	1 A2		. 60	54 T			• •		60	4 	•	0	0 1	1	1 A7		· <i>·</i>	₅ 1	

TEST READING RESOURCE NAME TEST WRITING LOCAL TEST SHOULD FAIL RELEASE CURRENT NODE TRANSFER DATA OVER CHANNEL RELEASE CURRENT CHANNEL WRITE \$PRIORTY	MRITE STLOCK MRITE STASK TEST PARAMETER BINDING TEST BINDING OF STASK	MINIMUM MAXIMUM ================================	DESCRIPTION
TEST RE TEST WR TEST SH RELEASE WRITE 8	WRITE SCLOCK WRITE STASK ### TEST PARAMET \$TASK TEST BINDING	TO STD DEV MIN BO B. B. B. B. COMPLETE SUSPEND.	PARM COMMENT ====================================
EOF A8 100 1 \$CLOCK RESUME 1	NOWAIT \$CNODE	10.000 10.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	PARM PARM PARM PARM PARM PARM PARM PARM
FILE1 RESOURCE FILE2 RESOURCE L2 CHNL H A8 OC \$CNODE SECONDS OC 5CNOS OC 5CNOS		S. SUM.	DESCRIPTION OPCODE PARM START B GIVEN LCLOCK ASSIGN \$NODE ALLOC \$CNODE APRIORITY BDELAY CONSTANT
MRITE WRITE TEST BRANCH BRANCH OEALLOC MDEALLOC	WRITE WRITE CALL GIVEN ENF SUSPEND END	TOTAL ESS WAIT RCE WAIT TOTAL # SCHEDULE	ENTRY OPC
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-	l	SCLOCK-0			
-	COMPARE	11	EQ		
-		۲3			
	BRANCH	82	100		
1 B? E	ENTRY				
E	EVAL	V CLOCKI		EVAL CLOBA	CLOBAL VARIABLE TEST
1		0.SCLOCK			
	EVAL	V CLOCK2			
		8-3CLUCK			
, ma	EVAL	V CLOCK2	V CLOCK2	EVAL ABSUL	ABSULUIE SCLUCK
		ABSULUTE:	(V_LLUCKZ)	TECT ADITE	ADTHUCATE CONTEXT
-4 -	COMPARE	V CLOCK 1	של מ מ		MEIL CONTEXT
- 5	HUNYOR	9.7 CLUCK 2	198		
6	NOT THE	3			
	, K (Z)	TON -	7	ALL OCATE B	PASSEN PARAMETER
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· ·	REPLY	TNATANO	9		
•		SECONDS	RESUME		
•	TEST	LNOOE	84	TEST AVAIL	TEST AVAILABILITY OF RES.
. 6	BRANCH	84	100	• • • • •	
94	ENTRY				
	DEALLOC	LNODE	1	FREE UP CHANNEL	ANNEL
-	RESUME	ITASK	RESTART		FSS
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	10101				
PROCESS	SAMPLES	N	MEAN	STD DEV. MTA	MINIMUM MAXIMUM
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APPENDIX C

Results Verification for

TESTDBC.DBF

04/20/1987

19:27:04

TEST BATCH WODE PROCESSING

PAGE 8

SIMULATION TIME = 1406

1400.00000 SECONDS

VARIABLE REPORT

NUMERIC VARIABLES...

NON-NUMERIC VARIABLES...

CURRENT CURRENT VARIABLE TYPE VALUE

IN TIME = 1488.88888 SE INT NUMBER NUMBER CREATED DESTR'D MINIMUM			TIME IN SYSTEM MAXIMUM AVERAGE STD DE ===================================
= 1480 NUMBER 0 DESTR'D	SECONDS		TIME IN S' MAXIMUM
NUMBEL	30.0000		MINIMUM.
O 11	7		NUMBER DESTR'D =======
SIMULATIO ITEM REPO ITEM NAME		JR.T	NUMBER CREATED
	SIMULATIC	ITEM REPO	ITEN NAME HEHE

0	
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w	
AGE	
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SECONDS
1400.00000
TIME =
SIMULATION T

QUEUE REPORT

MAXIMUM	24.666	
MINIMUM	4.369 0. 7.186 +3.357E-04	ø. ø.
STD DEV	4.369	Ø Ø.
CURRENT WEAN STD DEV WINIMUM WAXIMUM	1.343 4.699	
CURRENT	6	.
TOTAL NUMBER =======	4 0 0 0	00
QUEUE *==================================	REMOVED FROM # IN QUEUE TIME IN QUEUE	TASKS BLOCKED TASKS RESUMED # BEING BLOCKED

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AGE	
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1400.00000 SECONDS SIMULATION TIME =

RESOURCE REPORT

MINIMUM MAXIMUM	1.686 6.394 6.	1.000 0.300	ė.	2.800 0.394	
	<i>9 9 9</i>	0.201 0.089 +1.373E-04		ø. ø.	
STD DEV	6.201 6.057 6.	0.201 0.089		6.684 6.057	
MEAN	6.958 6.622 6.	0.042	6	6.866 6.822	
CURRENT	1.000	6	69	6	NONE
TOTAL NUMBER	6	400 400		400 400	LOCATED ROCESSES:
RESOURCE	SEWA # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

MAXIMUM	1.666 6.	ø.e.	ø.	6
STD DEV MINIMUMMAXIMUM	1.866 6.	ø. 6.	ë.	•
STD DEV	ရ စ စ	စ် စ်	6	S
CURRENT WEAN	2.000 0. 0.	<i>6</i> .0	<i>e</i> .	e.
CURRENT	1.000	5	.	•
TOTAL NUMBER	6	00		00
RESOURCE	STATION1 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING

2 0			MAXIMUM	1.666 6. 6.	s s	ė.	e e
.			MINIMUM	1.866	ø. ø.		6 6
•			STD DEV	0 0 0 	6 6 6	6	6 6
e.			WEAN	1.000 0. 0.	9.0		6 6
	NONE	NONE	CURRENT	1.000	.	.	6
	LOCATED	JRRENTLY WAITING: NONE	TOTAL NUMBER	6	00		6 6
PAGE 12 WAIT TIWE	CURRENTLY ALLOCATED TO PROCESSES: NONE	PROCESSES CURRENTLY WAITING	RESOURCE	STATION2 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME

Provinced of the second of the

PROCESSES CURRENTLY WAITING: NONE

CURRENTLY ALLOCATED TO PROCESSES: NONE

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13	MOTTA
PAGE	CTIM N ATTON

SECONDS

% TIME OF TOTAL.	4.212		X TIME OF TOTAL.	4.212
% TIME MAXIMUM OF TOTAL.		 	MAXIMUM	6.368 6.
	######################################		MINIMUM	0.089 +1.373E-04 0. 0.
STD DEV MINIMUM	2 00 11 00 11 11 11 11 11 11 11 11 11 11		STD DEV MINIMUM	6.689 6.00 .00
TOTAL CANDI FC WEAN			TOTAL SAWPLES WEAN	6.147 6.
TOTAL SAMPLES		7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	TOTAL Samples	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
ACTION REPORT	ACTION ************************************	USEFUL TIME DELAY TIME WASTED TIME	ACTION	SENDING USEFUL TIME DELAY TIME WASTED TIME

PAGE 14

1400 00000 SECONDS SIMULATION TIME =

PROCESS REPORT

MAXIMUM	69.368 69.			· ((65
MINIMUM		. 11		STD DEV
WEAN STD DEV WINIMUM MAXIMUM	6.6 .6	SCHEDULE SCHEDULE SCHEDULE COMPLETE COMPLETE SUSPEND. ***********************************	DESTR'D ======= 400	MAXIMUM ========= 0.30
WEAN	6.613 6.	COMPLETE COMP	SENT DES	# SMPLS MEAN MINIMUM
TOTAL SAMPLES, SUM	58.968 Ø.	SCHEDULE COMPLETE	CREATED RECEIVED SENT	PROCESS HOLDING TIME SMPLS MEAN MIN ====================================
SAMPLES. S	4 9 9 9	# AUTO SCHEDULE		
PROCESS	RECEIVE TOTAL PROCESS WAIT RESOURCE WAIT	TOTAL # SCHEDULE ESSESSES	ITEM	ITEW

DESCRIPTION ====================================	COMMENT	TEST FOR BUFFER USE REMOVE BY FIFD DISCIPLINE WHEN MSG=0 BUFFER IS EMPTY	WESSAGE LENGTH IS READ	CALCULATE RECEPTION TIME	TIME TO PROCESS MESSAGE	MSG ELIMINATED FROM SYSTEM Enter from compare & test
RANSMIT	PARM	BUFFER	ABORT			
S FROM T	PARM	NO ABORT MSG	LENGTH	•	MAZ MU MU MU MU MU MU MU MU MU MU MU MU MU	RESOME
DESCRIPTION	PARM	STATION2 SEMA FIRST	NSC NSC	ALPHA MU	ALPHA GAMMAZ CONSTANT MU	MSG
	OPCODE		ASSIGN	EVAL	ALPHA GAMMAZ READ WSG CONSTANT MU	DESTROY ENTRY ENO
S = = = = = = = = = = = = = = = = = = =	11 11					ABORT
PROCESS ====== RECEIVE	COUNT ENTRY		416	400 400	4 4 0 0 0 0	4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6

TOTAL

JE	6.671	0.394					i		9	EM						ING			
MINIMUM MAXIMUM	10-		S. 27 11 60		. STD DEV	DESCRIPTION		THE STREET CONTRACTOR OF THE STREET	RESUDECE FUR SENDING MS	INTRODUCE MSG INTO SYSTEM GENERALE RANDOM NUMBER		AVERAGE TIME ALPHA	SET WESSAGE LENGTH	CALCIN ATE TRANSMIT TIME		TIME CONSUMED TRANSMITTING	SG ON BUFFER	RELEASE RESOURCE SEMA	
STD DEV	6.167	0.057	ETE SUSPEND.	0 e e e e e e e e e e e e e e e e e e e	MAXIMUM	# # # # # # # # # #			KESUUKC	CENERAL		AVERAGE	SET MES	A # 12 142		TIME CO	STORE	RELEASE	
MEAN STE	6.169	0.022	LETE COMPLETE	SENT DESTR'D	IMUM ======= 373E-04	DESCRIPTION			ALL								BUFFER		
	67.687	8.718	COMP	RECEIVED SENT	MEAN MIN	MESSAGES		1 NO	 	_				LENGTH	AMMA2	JAN T	KESUME I AST		
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SAMPLES.	9	4	SCHE	CREATED	PROCESS # SMPLS ====================================				ALLOC	CREATE	- -	EVAL	ASSIGN		EVAL	SENDING	2 11 2	DEALLOC	
PAGE 15 PROCESS	-	PROCESS WALL	SCHEDULE	ITEM ======== WSG	ITEN	PROCESS ===================================	COUNT ENTRY	400	400	2 4 4 2 6 6 2 6 6	4 4 6 6	400	400 400	400	994	466	00 4	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	

APPENDIX C

Results Verification for

TESTDBD.DBF

04/21/1987

THE RECEIVERS BECOME CONTRACT OF THE PROPERTY OF THE PROPERTY

TEST VARIABLE TIME UNITS, WESSAGE ROUTINF, AND RESOURCE LOGIC

PAGE

3600.00000 SECONDS SIMULATION TIME =

CONSTANT REPORT

CURRENT
CONSTANT VALUE...
ESSESSES SESSESSES

PAGE

3600 00000 SECONDS SIMULATION TIME

VARIABLE REPORT

NUMERIC VARIABLES...

NON-NUMERIC VARIABLES...

CURRENT VALUE CURRENT VARIABLE TYPE

20	
AGE	

SIMULATION TIME = 3600.00000 SECCHOS

BOOK BELLEVER BELLEVER SECRETARION STATEMENT SECRETARION SECRETARI

ITEW REPORT

	MAXIMUM AVERAGE STD DEV	11 11 11 11 11 11 11 11 11 11 11 11 11	38.97
STEM	AVERAGE	## ## ## ## ## ## ## ## ## ## ## ## ##	71.89
TIME IN SYSTEM	MAX I MUM	0 0 11 11 11 11 11 11 11	194.86
	CREATED DESIRATED MINIMUM M	H H H H H H H H H H H H H H H H H H H	22.61
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3600.0000 SECONDS

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MAXIMUM	1.666 22.666 8.	1.000 6.000	6	5.000 22.000
MINIMUM	9 6 9 	e e		<i>6</i> 8
STD DEV	6 . 566 1 5 . 66 1 6 .	0.500 2.309	•	6.973 5.661
MEAN	0.513 4.683 0.	6.487	6	0.541 4.883
CURRENT	•	1.000	<i>e</i>	2.666
TOTAL NUMBER	60	418		418
HESOURCE	AB1 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY IIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME

CURRENTLY ALLOCATED
TO PROCESSES: NODEPROC
PROCESSES: NODEPROC

PROCESSES CURRENTLY WAITING: NODEPROC

MAXIMUM	1.000 22.000 0.	1.888 6.888	es.	6.686
MINIMOM	900	ø.		6
STD DEV	0.500 5.315 0.	6.586 2.369	6	6.911
MEAN	6.513 4.319 6.	Ø.487 4.222	ė	6.498
CURRENT	•	1.000		2.666
TOTAL NUMBER	6	416		418
RESOURCE	AB2 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING

22.666			MAXIMUM	1.666 6.	1.666	6	1.000 0.			MAXIMUM	1.000 0. 0.	1.888	ė
			MINIMUM N		Ø. 3.325	e •				MINIMUM	900	Ø. Ø.814	6 .
6.315			STD DEV	0.247 0. 0.	0.247 0.389	6	6 6			STD DEV	6.186 6. 0.	Ø.18Ø Ø.2Ø3	
4.319		NODEPROC	MEAN	6.935 6.	0.065 0.994	ė.	 			MEAN	0.966 0.	0.034 1.016	ė,
	NODEPROC		CURRENT	1.600	•		<i>©</i>	NONE	NONE	CURRENT	1.000	e.	6
	ALLOCATED PROCESSES: NODEPROC	CURRENTLY WAITING: NODEPROC	TOTAL NUMBER	6	237		237	LOCATED OCESSES:	CURRENTLY WAITING:	TOTAL NUMBER	6	119	
PAGE 22 WAIT TIWE	CURRENTLY ALL TO PRO	PROCESSES CUR	URCE	CH1_A # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CU		CH1_B # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE

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 			WEAN	6.935 6.	Ø. Ø65 Ø. 994	6	<i></i>			MEAN	8 9 . 9 8	6.634 1.616
ø.	NONE	NONE	CURRENT	1.000	9	eg	.	NONE	NONE	CURRENT	1.008	5
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PAGE 23 INTO WAIT OUT OF WAIT # WAITING	CURRENTLY ALLOCATED TO PROCESSES: NONE	PROCESSES CU	URCE SESSESSESSESSESSESSESSESSESSESSESSESSE	CH2_A # IDLE REQUEST TIME HOLD TIME	INTO BUSY DUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING	ACE TREESTABLE	CH2 B # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME
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ı	2	66			MINIMUM MAXIMUM		0. 0.305		6 6			MINIMUM MAXI	1.886 6.	
	.				STD DEV h	0.160 0. 0.	0.010 0.305 +1.105E-05	.	 • •			STD DEV	\$ \$ \$	
	.				MEAN	6.998 6. 6.	0.010 0.305	6	<i>6</i>			WEAN	1.088 6.	
	6	Ö	NONE	NONE	CURRENT	1.000	Ġ		ø.	NONE	NONE	CURRENT	1.666	
		119	OCATED CESSES: (TOTAL NUMBER	•	118		118	LOCATED OCESSES:	RRENTLY WAITING:	TOTAL NUMBER	6	6
PAGE 24	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING	RESOURCE N	www.	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING	RESOURCE	CH3_B # IDLE REQUEST TIME HOLD TIME	INTO BUSY

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6 6		ø ø			STD DEV	6.112 6.	6.112	6	ø. ø.			STD DEV	6 .682 6.
	6	 6			MEAN	6.987 6. 6.	0.013 0.192		<i>6.6</i>			MEAN	6.993 6.
S	9	•	NONE	NONE	CURRENT	1.666	ė.		Ġ	NONE	NONE	CURRENT	1.660
6		00		CURRENTLY WAITING: NONE	TOTAL NUMBER =======	6	238 238		238 238	LOCATED OCESSES:	RRENTLY WAITING: NONE	TOTAL NUMBER	
PAGE 25 OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CU	URCE	CH4 A # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING	RESOURCE	CH4_B # IDLE REQUEST TIME
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.	Ø.082 +3.682E-05		<i>e</i> . 2.			STD DEV	6.633 6.033	Ø.033 +0.855E-04					STO DEV
e	0.007	ė	8 8			MEAN	6.000 6.000 6.000	6.961 6.081	ė	 6 6			MEAN
	•		6	NONE	NONE	CURRENT	1.600	ø.	ė	6	NONE	NONE	CURRENT
6	120		120	ALLOCATED PROCESSES:	CURRENTLY WAITING:	TOTAL NUMBER	0	4 4		4 4	LOCATED ROCESSES:	CURRENTLY WAITING:	TOTAL NUMBER
PAGE 26 HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT DUT OF WAIT WAITING WAIT TIME	CURRENTLY ALI	PROCESSES CU	n		INTO BUSY OUT OF BUSY # BUSY BUSY	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES	PROCESSES CL	RESOURCE

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23	62 84					. MINIMON		24				•			
6.65 6.	0.052 +0.911E-04	•	<i>e</i> . <i>e</i> .			STD DEV.	6 6 6	6.164 +1.663E-64	6	6 6					
6.997 6. 0.	6.063 6.263		 • •			• 11 • 11 • 14 • 11	6.989 6.	0.011		6.0					
999						WEAN	999								100 0000000000000000000000000000000000
7.	6	69	6	NONE	NONE	CURRENT	1	6	69	Ġ	NONE	NONE			
9	4 4		4 4 80 80	••	••	TOTAL NUMBER	, 50 !	4 4 8 8		4 4 8 8	••	CURRENTLY WAITING:			
IDLE TIME TIME	BUSY BUSY TIME	TIVE	WAIT WAIT TING	CURRENTLY ALLOCATED TO PROCESSES	ES CURRI			BUSY BUSY TIME	CTIVE	WAIT WAIT ITING TIME	CURRENTLY ALLOCATED TO PROCESSES				
CHS_B REQUEST HOLD	INTO 0UT OF BUSY	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENT	PROCESSES	ESOURCE	CHG A # IDLE REQUEST TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURREN	PROCESSES			X
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STD DEV MINIMUM MAXIMUM	11 11 11 11 11	 6 6			8	A 20E	25.0				
STD DEV	 	0.088 0.			988	20 00 00 00 00 00 00 00 00 00 00 00 00 0	+0.0401.04				S
MEAN	## ## ## ## ## ## ## ## ## ## ## ## ##	8.998 8.	6		9		076.0	es [.]		6	6
CURRENT	11 11 15 15 11 11 11 11	1.000			•			· •			
TOTAL)† 16 11 11 11 11 11		6	48					48		
PAGE 28 RESOURCE		REQUEST TIME	HOLD TIME	INTO BUSY	OUT OF BUSY	1000	BUSY TIME	# INACTIVE	INTO WAIT	OUT OF WAIT # WAITING	WAIT TIME

CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

MAXIMUM	1.000 0. 0.	1.000 0.326	•	1.000 0.
MINIMUM		6. 6.325	.	6.6
STD DEV	6.066 6.	0.004 0.066 0.326 +0.847E-04	6	ø. ø.
MEAN	0.996 0. 0.	0.004 0.326		ø.
CURRENT	1.000	6	é	e,
TOTAL NUMBER	6	4 4 8		4 4
RESOURCE	CH7_A # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME

CURRENTLY ALLOCATED TO PROCESSES: NONE

		NONE
	3	
E 29	PROCESSES	
Ž		

MAXIMUM	1.000 6.	1.000		1.000			MAXIMUM	1.000 4.582 0.	1.000		6.000 4.682
MINIMUM		Ø. Ø.814	6	ø. ø.			MINIMUM	9,0,0	Ø. Ø.814	.	6 9
STD DEV	0.220 0.	Ø.22Ø Ø.184		<i>e</i> . e.			STD DEV	0.191 1.047 0.	0.191 +0.614E-04	e	0.312
MEAN	6.949 6.949 6.	6.651 1.163		6 6			MEAN	6.962 6.769 6.	Ø.038 Ø.814	ø.	8.836 8.769
CURRENT	1.000	e	6	6	NONE	NONE	CURRENT	1.000	ė,	69	Š
TOTAL NUMBER	•	166 166		166 166			TOTAL NUMBER	60	168 168		168 168
RESOURCE	CH7_B # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CURRENTLY WAITING		CHB A # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME
							C-69	9			

PAGE 30 CURRENTLY ALLOCATED TO PROCESSES: NONE

SECOND PROPERTY OF THE PROPERTY OF THE SECOND FREEDRING AND THE SECOND S

PROCESSES CURRENTLY WAITING: NONE

: !!	9	8.1		9
MAXIMUM	1.868 6.	1.000	ø.	1.868 6.
MINIMUM	666	Ø. Ø.325	<i>e</i>	ø. ø.
STD DEV	6.228 6. 0.	0.228	e	<i>6.6</i>
MEAN	6.945 6.945 6.0	0.055 0.895		<i>6</i> 6
CURRENT	1.000	S		6
TOTAL NUMBER	6	286		286 286
ACE	CH8_B # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME

CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

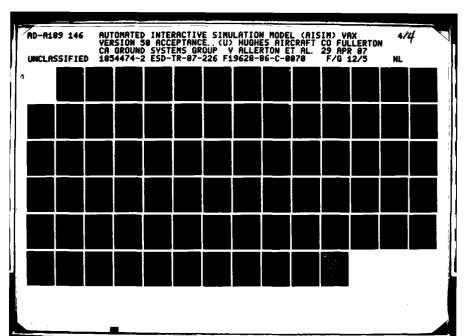
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	CURRENTLY ALLOCATED TO PROCESSES:	CURRENTLY WAITING:	TOTAL	7 \$ 11 11				ALLOCATED PROCESSES:	CURRENTLY WAITING:	TOTAL NUMBER		60 60		755555
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31 # WAITING WAIT TIME	ENTLY TO	PROCESSES		#= <u>-</u>	INTO BU JI OF BU BUSY II	# INACTIVE	INTO WAIT DUT OF WAIT # WAITING WAIT TIME	CURRENTLY TO	PROCESSES	i ! ! ! !		INTO BI OUT OF BI BUSY T		
	CURR	PROC	RESOURCE	CH9_B REQUEST HOLD	INTO OUT OF BUSY	*	T T ₹₹	CUR	PRO.	RESOURCE	REQUEST HOLD	100 100	*	
PAGE			RES	(H)						8	13			
								С	-71					

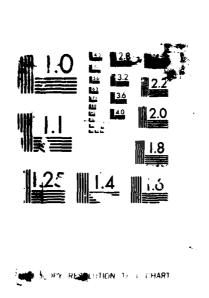
7.000			MAXIMUM	1.868 6.	1.000 0.086		1.000 0.			MAXIMUM	1.000 15.611 0.	1.000
<i>66</i>			MINIMUM	666	. 0 . 0 400.		66			MINIMUM	8 8 8 	S
0.653 1.924			STD DEV	6.645 6.	0.045 0.019	6	<i>6</i> 6			STD DEV	0.445 2.373 0.	0.445
6.213 6.929			MEAN	6.998 6.	0.002 0.044	.	<i>6</i> 6			MEAN	0.728 1.074 0.	0.272
e S	NONE	NONE	CURRENT	1.000	<i>6</i>		.	NONE	NONE	CURRENT	1.000	ø.
827	ALLOCATED PROCESSES:	CURRENTLY WAITING:	TOTAL NUMBER	•	168		168	LOCATED ROCESSES:	CURRENTLY WAITING:	TOTAL NUMBER	0	410
INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES	PROCESSES CL	RESOURCE	DKI # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES:	PROCESSES CL	RESOURCE	HQ # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY

PAGE

6.666	·	3. 666 15.611			MAXIMUM	1.886 2.226 0.	1.606	e.	1.666			MAXIMUM	1.060 84.387 0.
•	e.	<i>6</i> . <i>6</i> .			WINIMUM		6. 1.686	6	66			MINIMUM WAXIMUM	000
2.616		0.380 2.373			STD OEV	6.263 6.341 6.	0.263 1.200	•	0.043 0.341			STO DEV	0,416 21,264 0.
2.386	S	0.122			MEAN	6.925 8.878 6.	8.875 2.888	•	0.00% 0.070			MEAN	8.223 38.347 8.
	e.	•	NONE	NONE	CURRENT	1.000	6	6 9	ø.	NONE	NONE	CURRENT	1.000
		4 4	ALLOCATED PROCESSES:		TOTAL NUMBER	6	96 96		96 86	ALLOCATED PROCESSES:	CURRENTLY WAITING:	TOTAL NUMBER	5
PAGE 33 BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY AL	PROCESSES CURRENTLY WAITING	RESOURCE	L3 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY AL	PROCESSES CU	RESOURCE	SWI # IOLE REQUEST TIME HOLD TIME
									C-73				

PAGE 34 INTO BUSY 594 OUT OF BUSY 594 # BUSY IME	6	4.107	6.416 1.746	6. 1.666	1.000 6.000
# INACTIVE		es		e,	·
INTO WAIT 594 OUT OF WAIT 594 # WAITING WAIT TIME	6	5.007 30.347	6.432 21.264	င် ၆	22.666 84.387
CURRENTLY ALLOCATED TO PROCESSES:	NONE				
PROCESSES CURRENTLY WAITING: NONE	NONE				
TOTAL RESOURCE NUMBER	CURRENT	MEANS	STD DEV	MINIMUM	MAXIMUM
# IDLE T TIME D TIME	1.000		0.445 1.175 0.	8.8.8.	1.000 7.903 0.
INTO BUSY 214 OUT OF BUSY 214 # BUSY TIME	ø	0.271	0.445 1.783	6. 1.666	1.666
# INACTIVE	6		ė,	· 69	ø.
INTG WAIT 214 OUT OF WAIT 214 # WAITING WAIT TIME	6	0.022 0.374	0.160	6.6	2.668 7.983
CUPPENTLY ALLOCATED TO PROCESSES:	NONE				
MATTINGS WAITINGS	NONE				
TOTAL MIWBER	CURRENT	MEAN	STD DEV	MINIMUM	MAXIMUM
		0.642	0.498	.	1.000
•	•	•			





. 60	1.060 6.000	.	7.000		
	0. 1.600	ė.	 6 6		
5.663	1.742	ė	1.150		
3.858	Ø.458 3.632	.	0.487 3.858		
	ė.	.	Ġ	NONE	NONE
6	454		454	CATED ESSES:	RENTLY VITING:
PAGE 35 REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME	CURRENTLY ALLOCATED TO PROCESSES: NONE	PROCESSES CURRENTLY WALLING: NONE

PAGE 38

WULATION TIME = 3660.00000 SECONDS

ACTION REPORT

ACTION	0 11 15	TOTAL SAMPLES	WEAN	SID DEV	MINIMUM	MAXIMUM	% TIME OF TOTAL.
FORMAT USEFUL T DELAY T WASTED T	TINE TINE	168 168	6.682 1.524 6.	+4.240E-05 2.269 0.	6 .602 6 .	6.662 9.664 6.	6.669
ACTION	# # #	TOTAL SAMPLES =======	MEAN	STD DEV	MINIMUM	MAXIMUM	X TIME OF TOTAL.
USEFUL T DELAY T WASTED T	TIME TIME TIME	168 168	6.616 6.	66.66 60.00 .00.	+0.916E-04 0. 0.	6.6 .6 .6 .9	9.008
ACTION	# !!	TOTAL SAMPLES	MEAN	STD DEV	MINIMUM.	MAXIMUM	X TIME OF TOTAL.
WASTED T	TINE TINE TINE	2570 2570	4.338 Ø.	1.876 Ø.	1.666 6.	8.69 .69 .00 .00	309.667
ACTION	#1 1	TOTAL Samples =======	MEAN	STD DEV	MINIMUM	MAXIMUM	% TIME OF TOTAL.
SEEK USEFUL T DELAY T WASTED T	TINE TINE TINE	168	6.629 6.	6.617 6.	0.017 +2.441E-04 0. 0. 0.		0.137
ACTION	!! !! !!	TOTAL SAMPLES	WEAN	STD DEV	MINIMUM	MAXIMUM	* TIME OF TOTAL.
EFUL ELAY STED	TINE TINE TINE	354 354	6.008 1.775 0.	6.665 3.693 6.		6.611 16.611 9.	6.674
ACTION Biresessesses XFER)† 10 11	TOTAL SAMPLES	VEAN	STO DEV	MINIMUM	WAXIWUW	X TIME OF TOTAL.

		_
• 6 . 983E - 6 4	% TIME OF TOTAL.	39.490
+2.441E-04 +0.983E-04 0. 0.	MAXIMUM	1.221 6.
.	KINIKUM	6.68 .09.
108 +2.105E-05 +3.808E-05 108 0. 0. 0.	STD DEV MINIMUM	6. 438 6. 6.
+2.105E-05 0. 0.	MEAN	80.60
100	TOTAL Samples =======	2648
PAGE 37 USEFUL TIME DELAY TIME WASTED TIME	ACTION	XFER OH USEFUL TIME DELAY TIME

AGE 38

SINULATION TIME = 3608.00000 SECONDS

Manage Constant Secretary Constant Constant

PROCESS REPORT

MAXIMUM	+2.441E-64 0. 0.			. 11 4
INIMUM	666	νΩ 6		STD DEV
TOTAL SAMPLES. SUM MEAN STD DEV MINIMUM MAXIMUM	0.018 +1.551E-04 +0.781E-04 0. 0. 0. 0. 0.	OMPLETE SUSPEN	CREATED RECEIVED SENT DESTR'D	UM MAXIMUM STD DEV
MEAN	+1.551E- 0. 0.	# OF COMPLETE	SENT	TIME MINIMUM
UM	60.618 60.00 .00.	CALL SCHEDULE	CREATED RECEIVED SENT	PROCESS HOLDING TIME SMPLS MEAN MIN
TOTAL SAMPLES. SUM	118	SCHEOULE SCHEOULE COMPLETE		≪ II
39 99 90 11 11	ABOPDATE TOTAL PROCESS WAIT RESOURCE WAIT	SCHEDULE	ITEM ======= MSG	ITEM

	# # # # # # # #		N UPDATING		
COMMENT	H H H H H H H H		TIME CONSUMED IN UPDATING		
PARW	## ## ## ## ## ## ## ##				
PARW	NO NO		0.1	RESUME	
PARW	1† 1† 10 19 11 11	MSG	CONSTANT 0.1	MSECONDS	
OPCODE	START	GIVEN	UPDATE		ENO
ENTRY	f1 88 81 81 88 88 88 88 88 88 88 88 88 88				
COUNT ENTRY	118	118	118	118	118

MAXIMUM	16 16 16 17 17 18 18 18	.		e.
MINIMUM MAXIMUM	## 	•		.
STD DEV				
TOTAL SUM MEAN STD DEV	60 65 60 61 14 11 11 11	•	•	.
SUM	16 10 11 11 11 11 11 11	69		
TOTAL Samples.	 	120	60	6
PROCESS	AB DATA	TOTAL	PROCESS WAIT	RESOURCE WAIT

TALE & ALITO & CALL & OF A NOT & TTME

JSPEND.	ii 60 ii: 60 ii: ii: ii: ii: ii: ii: ii: ii: ii: ii:
COMPLETE SI	H 60
COMPLETE	120
SCHEDULE	H 60
SCHEDULE	126
39 SCHEDULE	120
PAGE	

PROCESS DESCRIPTION	ENTRY OPCODE PARM	ARREST START THE MAINTENANT OF THE START START START		RETURN MSG	CALL MRS NOWALL 10 TRUCKUS NEWCEST TO	CIVEN CHE CALL TE	117	GIVEN HO DATA 10 SREQNORE	158	ASSIGN SCHOOL		COMPARE CNODE	120 CALL MRS NOWAIT 10 PROCESS REQUEST TO ABI	GIVEN ABUPDATE 10 SREGNORE	750 AB1 MSG	BRANCH END 100 BRANCH TO THE END	ENTRY FROM COMPARE	CALL MRS NOWAIT	GIVEN ABUPDATE	156 AB2	END ENTRY	128 END	TOTAL	SAKPLES. SON KEAN SID DEV MINIMUM.		TOTAL 120 15050.965 125.425 36.615	120 16050.966 125.426 36.616 22.608		# AUTO # CALL # OF # NOT	SCHEDULE SCHEDULE COMPLETE	20 100
PROCESS ======= AB_DATA	COUNT	120	120	120	120	120	126	120	120	120	120	120	120	9 6	99	99	99	99	99		213			PROCE	AR RED	֚֭֓֞֜֜֝֟֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡	ä	RES			

PROCESS DESCRIPTION

DESCRIPTION

NB_REQ		AISBA!	S	I FOR PLAN	IS REPORT PARM	FROM CHQ		
126 126 126 126 126 126 126		START GIVEN GIVEN CALL GIVEN	MSC HERSC PLANS 2000	MAIT CHQ	S S S S S S S S S S S S S S S S S S S	PROCESS REQUEST	5	CHQ
PROCESS CHANPROC TOTAL PROCESS WAIT	TOTAL WAIT	TOTAL SAMPLES ======= 264 264	SUM = =============================	I NE II		DEV ====== 33.438 33.523 0.367	MINIMUM MA	MAXIMUM 183.451 183.126 4.682
E H H B	SCHEDULE SCHEDULE 2048 1TEM ITEM	ATI SE	# N 49 II	COM	COMPL	SC TIME	N C 11 69	
PROCESS ENAMPROC	ITEM HEREN MSG HEREN HEREN	ti 11	# SWPLS MEAN MINIMUM MAX 2048 0.78 0.08 DESCRIPTION FULL AND HALF DUPLEX CHANNEL LOGIC	0.76 0.76 DPLEX CHA	MINIMUM MA ===================================	MAXIMUM ================================	# SWPLS MEAN MINIMUM MAXIMUM STD DEV 2048 0.78 0.08 6.40 0.58 DESCRIPTION FULL AND HALF DUPLEX CHANNEL LOGIC	и
	H II 11	OPCODE ======= START GIVEN			PARM	COMMENT	COMMENT STREETS STREETS SERVERS SCT THICKNEY HADE CLOBELY	
		ASSIGN ASSIGN ASSIGN	SCNODE NSG TO NODE SNXTNODE NXT			GET DEST SET NEXT	DESTINATION NODE NEXT NODE TO DESTN	Z Z
2048	•	ASSIGN	SCHANNEL	TO_NODE		これ ここと	GET CHAMMEL TO MEXT MODE	NOUE:

ER IME R TIME	REGISTER TER XFER JEXT NODE MAXIMUM	12.581 0. 12.570			# U U U
OBTAIN CHANNEL FOR XFER WHAT IS CHANNEL RATE? MESSAGE LENGTH CALCULATE TRANSFER TIME DELAY DUE TO TRANSFER TIME	w ¥* ·ı	1.260 0.011 1.284 0.011 1.284 0.011 # TIMES SUSPEND.	MAXIMUM STD DEV	DESCRIPTION SECTION SE	萨城区外域 化过滤机 化过滤机 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性
ALL HD	6 EANSTD	2.844 6.3.245 3.245 COMPLETE COMPLETE	ENT DEST	RIPTION CETS WESSAGE, FORMULATES RESPONSE, AND PARM PARW COMMENT	
CHANNEL ALLOC CHANNEL 1 SPRIDRTY ASSIGN CHANNEL RATE VSPEED ASSIGN MSG LENGTH EVAL WA OVHD EVAL VM OVHD XFER OH CONSTANT VM OVI ASSIGN NST NODE MSG CNODE MSG CNODE	ASSIGN NXT NODE SCNODE SCNODE CALL NODEPROC GIVEN MSG END TOTAL SAMPLES. SUM	118 103 103 F AUTO SCHEDULE	CREATED RECEIV B PROCESS HOLDI # SMPLS MEAN	U	H H H Of H H H H
7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		CHQ DATA TOTAL PROCESS WAIT TOTAL PROCESS WAIT TOTAL PROUNCE WAIT TOTAL PROUNCE SCHEDULE	ITEM MSG MSG ITEM MSG	PROCESS CHQ DATA COUNT ENTRY OP	# # # # # 1 14 22 31 41
		C-	81		

WAKE WSG-LENGTH = V_LENGTH EVALUATE WSG PROCESS TIME PROCESSING TIME CONSUMED	MAXIMUM =================================			7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# 11 11 11 11 11	COMMENT	ESTROY	NT NODE	EXECUTE THE CALLED PROCESS SET PRIORITY FOR REQ PROC
1-LENGTH E WSG PR ING TIME	MINIMUM	ES EB.		. STD DEV	11 11 11 11 11	11 11 11 11 11	CURRENT NODE IF RESPONSE, DESTROY	ALLOCATE CURRENT NODE	THE CA
WAKE WSG- EVALUATE PROCESSIN	DEV ====== 26.949 26.182 2.898	# TIMES TE SUSPEND.	°0 ≈== 622	MAXIMUM	DESCRIPTION		CURRENT NODE IF RESPONSE,	ALLOCAT	EXECUTE SET PR]
	STD	M NOT COMPLE	DESTR	н	OF MES	PARM	ED	DESTROY ALL	
LENGTH ENGTH V TIME RESUME	MEAN	# OF COMPLETE	SENT =========	-	DESCRIPTION	# # # # #	CNODE		RPROC RPROCPRI
WSG WSG WSG V LENGTH V—TIME V—TIME V—TIME V TII WSECONDS RESU	SUM 10141.065 9726.128 416.927	CALL SCHEDULE SCHEDULE 690	RECEIVED	MEAN	AT DES	» !!			
MSG MSG MSG V LENGTH V TIME GONSTANT MSECONOS	0) 4	ULE SCH	11 60	PROCESS H # SWPLS ME ====================================	DESCRIPTION	PARM E EEEEEEE ALL NSC			MSG MSG PROCESS MSG
GIVEN RETURN ASSIGN EVAL UPDATE END	TOTA SAMPL SEEE	# AUTO E SCHEDULE = ===================================		** 11	_	OPCODE EMMERME START	ASSIGN	ALLOC	ASSIGN
	OCESS STEREC TOTAL PROCESS WAIT	TOTAL # SCHEDULE ======= 690	ITEM ======= MSG	ITEM HELENSELN MSG	II)) 11 11 11 11	ENTRY			
PAGE 42 118 118 118 118 118 265 265	PROCESS ===================================				PROCESS ======= DESTPROC	_	9 89 89 89 89 89 89 89 89 89 89 89 89 89	6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	622 622 622

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	RETURN	30.5	,		STATE OF STE	CHEBENT NODE	
	DEALLOC	NOOF	-	9	DEALEGEATE COMMENT		
	COMPARE	NSC.	TYPE	1	NO RESTONS		
522		SREQNORE		DESTROY		Sect notice and	
168	ASSIGN	SRESP			CHANGE MSG	MSG RESPONSE LIPE	
891		MSG	TYPE				
168	ASSIGN	MSG	FNODE		SWITCH FRD	SWITCH FROM AND TO NODES	
80		MSG	TNODE				
168	ASSIGN	MSG	CNODE		CURRENT NODE IS	JE IS FROM NODE	
891		NSG	FNODE				
168	CALL	CHANPROC	WAIT	•	RETURN MES	RETURN MESSAGE TO ORIGIN	
G (C)	GIVEN	MSG					
100	BRANCH	QNI QNI	166			!	
S22 DESTROY	ENTRY				TERMINATE	MESSAGE AT DEST	
	DESTROY	NSG			TERWINATE	NSG	
696 END	ENTRY						
896	2						
	TOTAL						
PROCESS	SAMPLES	SUM	KEAN	ors	STD DEV WIN	MINIMUM MAXIMUM	:
	11 11 11 11				11 11 11 11 11 11 11 11 11 11 11 11 11))
DISK_OP TOTAL	9		7 483	146	9.819	6.884 6.886	88
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SCHEDOLE HILLIAM							
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DISK_0P		OPERATION OF D	DISK				
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188	START		02				
891	GIVEN	LENGTH	OISK				
168	ASSIGN	DISK	SPEED		MAKE DISK	SPEED = V_SPEED	
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168	•	?	SPEED	;		4	
168	ALLOC	DISK		ALL	DISK ALLUCATED	AIEU	
168		SPRICE	7220		NAVE SEEKTIME	TWF = SFFK	
168	ASSIGN	DISK				THE - SELF	

SEEKTIME TIME FOR SEEK IS CONSUMED MAKE DISK LATENCY=LATETIME LATETIME TIME CONSUMED FOR LATENCY TRANSFER TIME CONSUMED DISK RESOURCE DEALLOCATED	STD DEV MINIMUM MAXIMUM	# NOT # TIMES COMPLETE SUSPEND. ====================================	UM MAXIMUM STD DEV ===== =============================	DDE PARM PARM COMMENT RT MSG LENGTH MSG LENGTH EVALUATE MSG-LENGTH = V_LENGTH LV TIME 'ATE CONSTANT V TIME WSC CONSTANT PROCESSING TIME CONSUMED
SEEKTIME UNIFORM SEEKTIME SEEKTIME WSECONDS RESUME DISK LATETIME LATETIME LATETIME CONSTANT XFERTIME MSECONDS RESUME MSECONDS RESUME DISK 1	SUM MEAN	SCHEDULE COMPLETE ===================================	PROCESS HOLDING TIME # SMPLS MEAN MINIMUM =================================	HQ GETS MESSAGE, FORMULATES RESPONSE, AND DDE PARM PARM COMMENT RT MSG URN MSG IGN MSG LENGTH ENGTH CONSTANT V TIME MSECONDS RESUME
PAGE 44 168 SEEK 168 ASSIGN 168 ASSIGN 168 ASFIGN 168 A	PROCESS SAMPLES. ====================================	SCHEDULE SCHEDULE SCHEDULE SCHEDULE 118 ITEN CREATED MSG 8	ITEM SESSESSESSESSESSESSESSESSESSESSESSESSES	HQ_DATA HQ_GE COUNT ENTRY OPCODE 118 CIVEN 118 ASSIGN 118 EVAL 118 EVAL 118 EVAL 1196 UPDATE

	MAXIMOM	CHQ	MAXIMUM
	MINIMUM MAXI ====================================	COMMENT CAMENT CAMEN	22.686 22.686 9. 87D DEV.
	496 496 496 5.496 5.05PEND.	DESCRIPTION SECURITY OF STATUS DISPLAY FROM CHQ HQ REQUEST FOR STATUS DISPLAY FROM CHQ HQ REQUEST FOR STATUS DISPLAY FROM CHQ HQ REQUEST FOR STATUS DISPLAY FROM COMMENT CODE PARM PARM PARM PARM COMMENT CODE PARM PARM PARM PARM PARM PARM PARM PARM	38.971 38.971 9.971 9.971 F. TIR F. TIR F. D.
	: 1 99 - 0 1	DESCRIPTION	11.891 11
		PARM PARM NO WAIT CHQ	\$UM
		DESCRIPTION LEGENSTRON HQ REQUEST FOR DPCODE PARM START L3 GIVEN WSG CALL WRS GIVEN PLANS GIVEN PLANS END	07AL WPLES. SUN 622 37 622 36 CAUTO # CHEDULE S CREATED
END	וו לא י	0PC 0ST/ 0ST/ 0ST/ 0ST/ 0ST/ 0ST/ 0ST/ 0ST/	" " " " " " " " " " " " " " " " " " "
PAGE 45	PROCESS HQ_REQ TOTAL PROCESS WAIT RESOURCE WAIT SCHEDUL	PROCESS HQ REQ COUNT ENTRY LEET FEE 48 48 48 48 48 48 48 48 48 48	PROCESS WAT PROCESS WAIT RESOURCE WAIT TOTAL SCHEOUL SEREST TEM ITEM ITEM INSG

PAGE	46 WSG	v	628	O			
PROCESS			PTION				
KRS III	11 11 11 11 11	GENERA	TE A PROC	ESS REQUE	ST MESSAC	GENERATE A PROCESS REQUEST MESSAGE AND INITIATE I/O	.TE I/O
COUNT			PARW	PARW	PARW	COMMENT	
229 229 229 229	f) 	START	ALL PROCESS	NO PRIORITY	MSG_TYPE		
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528 528		ASSIGN	MSG- PROCESS	_		SET PROCESS	
528 528 528		ASSIGN	PRIORITY	KPKOC		SET PRIORITY	
528 528		ASSIGN	TO NODE	KPKOCPK1		SET DESTINATION	110N
528 528		ASSIGN	MSG TYPE	INOUE		SET MESSAGE TYPE	TYPE
528 528 528 528		CALL	MSG NOOEPROC MSG	TYPE WAIT	0	EXECUTIVE SERVICING	PRVICING OF MSG
522		END	,				
PROCESS	PROCESS	TOTAL SAMPLES.	SUM	WEAN		DEV	MINIMUM MAXIMUM
NUDEPROC	TOTAL		_		.918	37.278	.000 194
RESE	PROCESS WALL RESOURCE WAIT	25/8	23488		9.132	33.477 16.026	0. 183.451 0. 84.387
	TOTAL # SCHEDULE ====================================	AUTO SCHEDULE	# CALL E SCHEDULE = ===================================	# OF LE COMPLETE	# NOT	E SUSPEND.	
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MAXIMUM	9.723 Ø.686 8.186
MEAN STO DEV WINIMUM WAXIMUM	6.664 6.664 6.811
STO DEV	2.265 0.019 1.645
WEAN	1.610
UM	276.504 7.403 262.765
TOTAL SAMPLES. SI	168 168 152
PROCESS HELLER HELLER HELLER PLANS	TOTAL PROCESS WAIT RESOURCE WAIT

.:	ti 40 44 44 9: 41 14 11		COMMENT	WAKE WSG LENGTH = V_LENGTH EVALUATE WSG PROCESS TIME TIME USED TO FORWAT PLANS CALLING PROCESS DISK_OP INCREASE WSG LENGTH	M MAXIMUM		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	COMMENT
MAXIMUM STD DEV	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		COMMENT	WAKE WSG LENGTH = V_LENEVALUATE WSG PROCESS TI TIME USED TO FORWAT PLA CALLING PROCESS DISK_OP INCREASE WSG LENGTH	EV MINIMUM	TIMES SUSPEND.	DESCRIPTION ====================================	COMMENT
. II .		PLANS FROM CHQ		MAP EV. 10 CAI	STD D	# NOT E COMPLETE	H H H H H H H	PARM CO
		REQUEST FOR PLANS FROM CHQ		LENGTH CTH CTH V TIME WAIT DK1	MEAN	JLE COMPLETE	OUTPUT	PARK NO III
SWPLS WEAN	DESCRIPTION	REQUEST FOR PL	PARW	CHQ NO MSG NSG NSG LEW NSG LEW V TIME OF WSIG NSG NSG NSG NSG NSG NSG NSG NSG NSG NS	SUN E	* AUTO * CALL SCHEDULE SCHEDULE	DESCRIPTION ====================================	PARM == Z======== ALL == V TRACE ON ON
## !! !! !!	DESC	H 11 11	OPCODE	START GIVEN RETURN ASSIGN EVAL FORMAT CALL GIVEN ASSIGN	SAMPLES. SAMPLES. TOTAL WAIT	TOTAL # # AU SCHEDULE SCHE	DES	OPCODE START COMPARE TRACE
PAGE 48 ITEM ====:	PROCESS	PLANS	COUNT ENTRY	168 168 168 168 168 168 314 314 168 168 168	PROCESS ===================================	101 SCP	PROCESS	COUNT ENTRY

APPENDIX C

Results Verification for

TESTDBE.DBF

good verreed eccessed lecesses bearing servers

PAGE 16

SIMULATION TIME = 10000.00000 SE

VARIABLE REPORT

NUMERIC VARIABLES..

	TOTAL			VALUE	*	1111111111
VARIABLE	SAMPLES.	CURRENT	MEAN	STD DEV	MINIMUM.	MAXIMUM
	***************************************	H H H H H H H H H H H	*********	## ## ## ## ## ## ## ## ## ## ## ## ##		
VABS		10			10.000	10.000
VADO	8		10		10.000	10.000
VARCOS	68	2.666	2.000	-	2.000	2.000
VARCSIN	68	1.142	1.142	+4.012E-08	1.142	1.142
VARCTAN	68		-1	+2.784	-1.142	-
VBETA	68	6.828	•	•	0.427	10.
N187	88	•	86	16.	6.500	100
VCOMP 1	2	12.000	999.9	•	.	12.666
VCOMP2	2	63.160	1 26.575	26.575	.	63.150
VCOMP3	2	9.666	4 . 500	•	.	9.000
VCOMP4	2	7.136	3.567	3.567		7.135
VCOS	89	-0.416	9	+1.634	-0.416	9
VCTABLE	6 0	86.000	20	32.977	•	166.666
VIQV	2		16	6	16.000	10
VDTABLE	œ	80.000	47.	33.072	.	166.666
VERLANG	88	٠	11.173	10.250	3.937	
VEXP	68	3.343	•	8.996	6.058	
VEXP10	68	166.666	100		8	166
VEXPE	66	100.000	100	+1.366E	166.666	
VCAMMA	68	699.6	9.829	4.197	2.462	21.
VL0G16	68	2.000		•	2.066	~
VL OGE	68	4.665	•	+2.107E	4.605	4
VLOGN	68	18.377	10	5.588	2.850	36.
VWULT	2	10.666	16		10.000	10
VNBUSYO	199	2.000	7	Ø.189	.	2.000
VNIDLEG	199	•	0.010	0.141		-
VNORMAL	68	16.818	16	4.679	-3.137	22.386
VNWAITQ	199	198.666	97.	56		198.000
VPOISSON	68	7.000	11.371		1.866	116.666
VPOWER	8	10.000	10.000	+1.907	10.866	10
VRAN	68	999.0	9.248	9.258	699.0	69.883
ASIN	88	696.0	696.99	+4.280E-08	606.0	•
VSQRT	2	10.000	10.000	.	16.866	10.000
VSUB	2	10.000	10.666		10.000	10.000
VTAN	68	-2.186	-2.1	+2.356E-08	-2.185	-2.186
VUNIFORM	68	9.973	16.321	2.696	6.232	14.917
VWEIBULL	68	6.224	4.916	_	3.314	16.666

PAGE 17
NON-NUMERIC VARIABLES... PAGE 17 NON-NUMERIC VARIABLES...

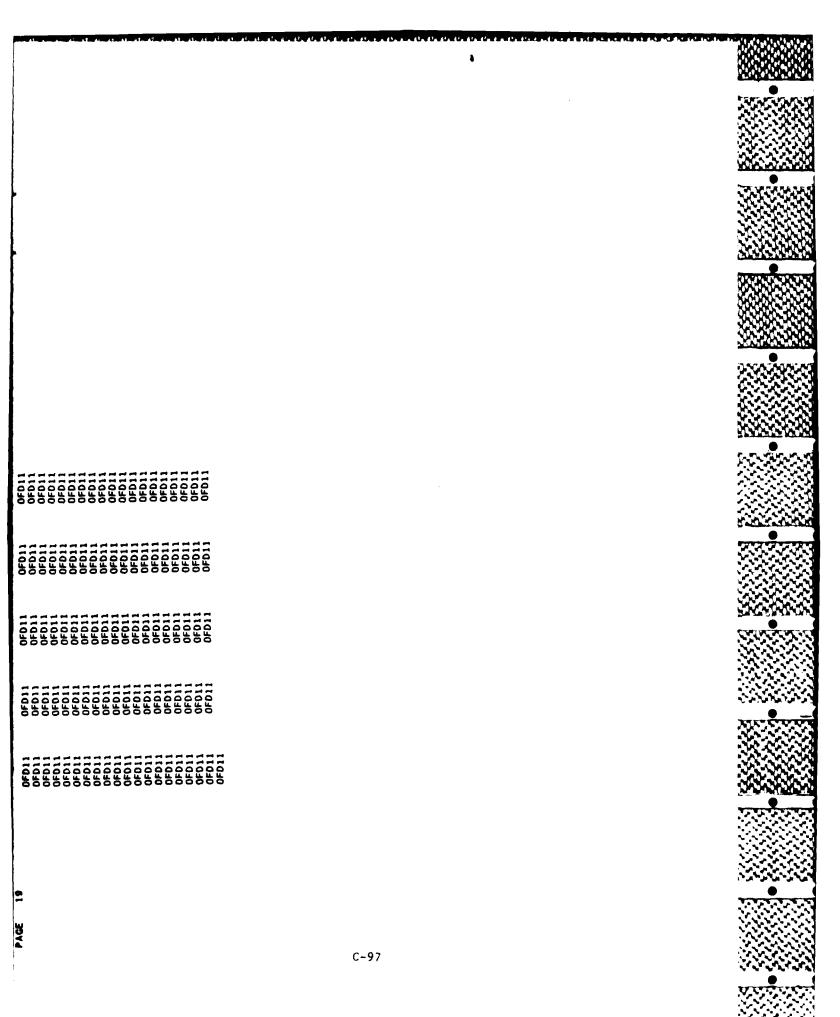
CURRENT CURRENT VARIABLE TYPE VALUE

PAGE 18

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RESOURCE REPORT

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SIMULATION TIME	ACTION REPORT

OF TOTAL.	226.149	% TIME . OF TOTAL.	482.337
MAXIMUM	161.663 6.	MAXIMUM	327.760
MINIMOM	. 365 . 365	MINIMUM.	 • • •
STD DEV MINIMUM MAXIMUM OF TOTAL.	39.196 6.	STD DEV	61.268 6.
TOTAL SAMPLES MEAN	62.645 6. 0.	TOTAL SAMPLES WEAN STD DEV MINIMUM	83.618 0.
TOTAL SAMPLES	361	TOTAL SAMPLES	581 581
	VALUATE USEFUL TIME DELAY TIME WASTED TIME	NOTION	PROCESS USEFUL TIME DELAY TIME

PAGE 21

STMULATION TIME = 18888.88088 SECONDS

PROCESS REPORT

PROCESS SAMPLES. SUM...... WEAN..... STD DEV... MINIMUM... WAXIMUM... WEAN... WEAN... STD DEV... WINIMUM... WAXIMUM... WA

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	CAL SCHED	DESCRIPTION	PARM	-	VL0G10	L0G10 (100.0)	10.00.VL0G10	VLOGE	LOCE (188.8)	VEXPE	2.71628	VSIN	SINE(2)	VARCSIN	ARCSINE (VSIN)	VCOS	COS INE (2)	VARCOS	ARCOS INE (VCOS)	NY _	TANGENT (2)	VARCTAN	ARCTAN (VTAN)	
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PAGE 23 PROCESS WAIT RESOURCE WAIT	TOTAL # SCHEDULE ====== 88	PROCESS	COUNT ENTRY		88	00 G 00 G	9 60	88	88	88	88	80	88	88	88	88	88	88	88	88	88	88	88	88

PROCESS SAMPLES. SUM..... WEAN...., STD DEV... MINIMUM... MAXIMUM...

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DESCRIPTION TEST ALLOCATE & DEALLOCATE RESOURCE	PARM	Z) ii	OMPLETE COMPLETE	ARITHMETIC EVALUATIONS	PARM	VCOMP1 RES1[ATTR1]+(RES1[NIDLEQ] + TDIS(1)) VCOMP2 VCOMP3 - RES1[ATTR3]	INTEGER(RANDOM•10) + 6 VCOMP4 EXPONENT(10.0)+(RES1[ATTR2]+TCON(2))	
TE & DEALL	PARM == ==================================	RES		7 11 6 0	ARITHMET	PARM E = E = E = E = E = E = E = E = E = E =	(TTR1)+(RE (1)) (2.3 - RE	INTEGER(RANDOM.10) + 6 VCOMP4 EXPONENT(10.0)+(RES1[A	SUM MEAN
DESCRIPTION	PARM ====================================	ຸ ທ			DESCRIPTION	PARM	RESI[A + TDIS VCDMP2 20.6 •	INTEGE VCOMP4 EXPONEI	
n n n	OPCODE START ALLOC	DEALLOC END TOTAL SAMPLES.	11 JFF	# # AUTO ULE SCHEDULE	D		EVAL EVAL	EVAL	TOTAL SAMPLES.
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11 12 14 14 14	II 11 11 11 11 11			11 12 11 11 11 11	11 13 11 11 11 11 11		0.365 0. 0.	
11 60 11 11 11 14	COMMENT	MININ III	# TIMES SUSPEND.	11 11 11 11 11	COMMENT	MINIMUM		# TIMES SUSPEND.
11 24 14 11 11 11	COMMENT	STD DEV		11 13 14 11 11		STO DEV	6.339 6.	
DESCRIPTION	PARM 2 = = = = 100.0	MEAN ST ====================================	# NOT ETE COMPLETE === ======== 98 1	DESCRIPTION	PARM ======= 100.00	MEAN ST	9.951 Ø.	ETE COMPLETE
FEEEEE	PARM ======= NO 100.0 RESUME		# OF COMPL	====== STRIBUTI	PARM ======= NO 100.00 RESUME		30	# OF COMPL
DESCRIPTION	PARM ======= ALL NORMAL SECONDS	SUM ========= 9814.306 0.	# CALL SCHEDULE	DESCRIPTION	PARM ======= ALL UNIFORM SECONDS	SUM	945.330 6. 0.	# CALL SCHEDULE ======
DESCRIPTION	DDE	SAMPLES.	AUTO SCHEDULE	DESCRIPTION	ODE	TOTAL SAMPLES.	0. R Ø Ø	# AUTO SCHEDULE =======
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)) 15 11 11 11 11		STD DEV	# NOT # TIMES COMPLETE SUSPEND.	14 14 14 10 10 14 11 11		STD DEV	14.727 6. 6.	NOT TIMES
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PAGE 27 PROCESS ***********************************	COUNT ENTRY 25 25 25 25 25 25 25 25 25 25 25 25 25	PROCESS SELECTION TOTAL PROCESS WAIT	RESOURCE WAIT TOTAL # SCHEDULE ====================================	PROCESS	COUNT ENTRY BB BB BB BB BB BB	PROCESS	OFD7 TOTAL PROCESS WAIT RESOURCE WAIT	TOTAL SCHEDUL

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	FVAL	1	EVALUATE	EVAI	באטר	EVALUATE	EVAL		EVALUATE	EVAL		EVAL	EVAL		E V A L	EVAL		EVAL	EVAL		EVAL	- T		EVAL		EVAL	EVAL		EVAL	EVAL	END
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APPENDIX C

Results Verification for

TESTDBF.DBF

PAGE

04/21/1987

10:19:04

STDBF

TEST ERROR HANDLING OF ARITHMETIC EXPRESSIONS - WITH CORRECTIONS

PAGE 8

SIMULATION TIME = 100.00000 SECONDS

VARIABLE REPORT

NUMERIC VARIABLES

NON-NUMERIC VARIABLES...

CURRENT CURRENT VARIABLE TYPE VALUE

PACE 7

STMMATTON TIME = 100.00000 SECGNOS

RESOURCE REPORT

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CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

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SIMULATION TIME	PROCESS REPORT

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APPENDIX D

Model Description for

TESTCONV3.DBF

Before Conversion

SECOND ITEM ON THE LIST WITH LOTS OF ATTRIBUTES M ON THE LIST WITH A SINGLE ATTRIBUTE GLOBAL VARIABLE HOLDING RESOURCE GLOBAL VARIABLE HOLDING RESOURCE GLOBAL VARIABLE HOLDING AFFHA LITERAL 22 GLOBAL CONSTANT WITH VALUE = 10 DESCRIPTION DESCRIPTION GLOBAL VARIABLE DEFINITION.... SLENGTH INITIAL INITIAL COMMENT COMMENT VALUE ITEM DEFINITION TABLE DEFINITION LENGTH CONSTANT INITIAL MNEMONIC VALUE RES1 SERROR ATTR. ATTR. ======== ITEM1 1TEM2 CONSI ITEM VAR3 D-3

QUEUE MAXIMUM
MNEMONIC SIZE COMMENT
SECRET S TEST RESOURCE DESCRIPTION ^I^ LINK ARCHITECTURE LEGAL PATH DEFINITION NEXT DEVICE TOTAL INITIAL
UNITS # UNITS | RESOURCE DEFINITION.... PROCESS DEFINITION.... ACTION DEFINITION.... TO DEVICE MEMONIC # UNITS # 11 11 11 11 11 11 11 FROW DEVICE

\$ERROR 999999999 RES1

RTASK TASKPRI TNODE TYPE

PAGE

QUEUE DEFINITION....

ENTRY	OPCODE	PARM		PARM	COMMENT
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NEXT	ENTRY COMPARE	L V.COUNT1		GT WAIT	CONTINUE FOR ALL CALLS TEST VALUE OF COUNTER TATATE PARALLE INSTANT
	CALL GIVEN EVAL	PROCESS1 L L	BLOCK ADD	J	COUNTER
WAIT	BRANCH ENTRY WAIT	L NEXT	100		RETURN TO TOP ENTRY
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PROCESS MNEMONIC ========= INIT2	11 12 13 14 14 44	DESCRIPTION	TON SEND, ACT	FION SEND, ACTION DELAY	DESCRIPTION ====================================
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l	CREATE SEND DELAY	ITEM1 PROCESS2 CONSTANT			
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DELAY FOR BLOCK	(A)	PARM COMMENT	(q) 3 PROCESS3 (P)	PARM COMMENT	PROCESS PROCESS3 2 QUEUE1 (Q) DESCRIPTION GENERATE A PROCESS REQUEST MESSAGE AND INITIATE I/O PARM PARM PARM COMMENT ALL NO	
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- · · · · · · · · · · · · · · · · · · ·	3 RESP.OPT 7 ROUTER FEEST OF THE		IS MSG AT DESTINATION OF THE MODE DELAY FOR ROUTIN DEALLOCATE NODE WAKE NODE UNAVA
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0 ERRORS WERE DETECTED DURING MODEL INITIALIZATION

APPENDIX D

Model Description for

TESTCONV4.DBF

Before Conversion

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GLOBAL CONSTANT WITH VALUE = 10 COMMENT CONSTANT INITIAL WNEWONIC VALUE 22 CONSI

TABLE DEFINITION...

GLOBAL VARIABLE DEFINITION....

GLOBAL VARIABLE
GLOBAL VARIABLE
GLOBAL VARIABLE HOLDING RESOURCE
GLOBAL VARIABLE HOLDING ALPHA LITERAL COMMENT 16 VARIABLE INITIAL MNEMONIC VALUE RES1 SERROR V.COUNT1 1 VAR3

ITEM DEFINITION.....

MON THE LIST WITH A SINGLE ATTRIBUTE DESCRIPTION INITIAL VALUE ======= \$LENGTH LENGTH ATTR. ITEN ======= ITEN1 D-13

SECOND ITEM ON THE LIST WITH LOTS OF ATTRIBUTES DESCRIPTION CNODE SCNODE FNODE SCNODE LENGTH 99999999 PTASK SERROR RESPONSE SWAIT neresce eventeedenteede INITIAL ATTR.

		COMMENT INFINITE HOLDING AREA LIMITED SIZE HOLDING AREA		DESCRIPTION STRESSURCE	χ.	VIA LINK ========		COMMENT BELLERESTER DELAY WAN-WADE DELAY OVERHEAD DELAY		DESCRIPTION
RTASK \$ERROR TASKPRI 99999999 TNODE RESI TYPE 5	QUEUE DEFINITION	QUEUE MAXIMUM WNEWONIC SIZE COMMENT ====================================	RESOURCE DEFINITION	RESOURCE TOTAL INITIAL WANEWONIC # UNITS # UNITS DESCRIPTION RESI	ARCHITECTURE LEGAL PATH DEFINITION	FROM TO NEXT VIA DEVICE DEVICE LINK	ACTION DEFINITION	ACTION ACTION WNEMDNIC CLASS COMMENT ####################################	PROCESS DEFINITION	PROCESS WMEWONIC SELECTION TEST CALL BLOCK INITI
						D	-14			

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PAGE	LOCAL VARI	EXIT EXIT	LOCAL VARI
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1 REQ-I/O (P) 2 TOI
5 ITEM2 (I)

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SCENARIO DEFINITION...

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MNEMONIC
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APPENDIX D

Model Description for
TESTCONV3.DBF and TESTCONV4.DBF
After Conversion

CONTROL CONTROL OF THE PROPERTY OF CONTROL OF THE PROPERTY OF

16:08:49 04/22/19

GLOBAL CONSTANT DEFINITION....

CONSTANT INITIAL MANGENT MEMONIC VALUE COMMENT SECRETARIZED SECRETARIZ

CONSI

FILE DEFINITION....

COMMENT MNEMONIC

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TABLE DEFINITION....

GLOBAL VARIABLE DEFINITION....

GLOBAL VARIABLE HOLDING RESOURCE GLOBAL VARIABLE HOLDING ALPHA LITERAL GLOBAL VARIABLE COMMENT VARIABLE INITIAL
WNEMGNIC VALUE
CARACTER STREST
VAR3
VAR3
SERROR
G
V_COUNTI 10

ITEM DEFINITION.....

M ON THE LIST WITH A SINGLE ATTRIBUTE DESCRIPTION INITIAL VALUE ATTR. ITEW ======= ITEM1

DESCRIPTION

LENGTH

SECOND ITEM ON THE LIST WITH LOTS OF ATTRIBUTES

\$2505.00 | \$3400000 | \$2000000 | \$3500000 | \$3500000 | \$3500000 | \$3500000 | \$35000000 | \$35000000 | \$35000000 |

QUEUE DEFINITION....

QUEUE MAXIMUM WNEWONIC SIZE COMMENT ======== INFINITE HOLDING AREA QUEUEZ 100 LIMITED SIZE HOLDING AREA

RESOURCE DEFINITION....

ARCHITECTURE LEGAL PATH DEFINITION

FROM TO NEXT VIA
DEVICE DEVICE DEVICE LIN

ACTION DEFINITION....

ACTION
WNEWONIC
STREETS STREET

8 11 11 15 15 15	11 19 01 18 18 18		CALLS	INSTANT			11 11: 12: 14: 14: 14: 14: 14: 16:		1	1			TO PROCESS	
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										D-25				

OVERHEAD DELAY

PAGE

PROCESS DEFINITION....

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	PAGE	5 0					
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		COMPARE	INSG	CNODE	EQ	IS MSG AT DESTINATION?	
		ASSIGN	KSG CP	TNODE NETINSTR	EXIT		
		TEST ALLOC	CP OVHO	EXIT		DELAY FOR ROUTING	
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		ENO S					
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		END	38	RES1	ITEM2		
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APPENDIX E

Model Description and Results Verification for

TESTDB2.DBF

04/22/1987

18:10:06

TES T082

CASE 1 DATA

GLOBAL CONSTANT DEFINITION.....

FILE DEFINITION....

E-3

WNEWONIC

SESSESS STREETS STRE

TABLE DEFINITION...

GLOBAL VARIABLE DEFINITION....

VARIABLE INITIAL COMMENT

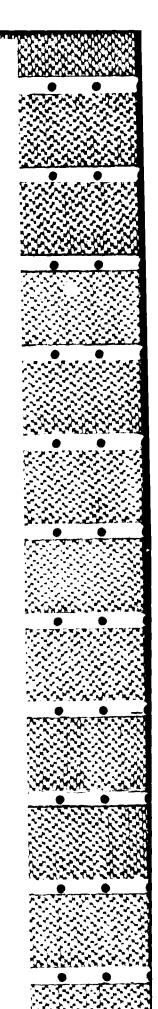
NANEMONIC VALUE COMMENT

NATIONAL OS OVERHEAD FOR PROCESSING

ITEM DEFINITION....

DESCRIPTION

ITEM



	B II	ATTR. NAME LENGTH	INITIAL VALUE E EFFEFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	ITEM WESSAGE
	QUEUE DEF	QUEUE DEFINITION.	:	
	QUEUE WNEWONIC	MAXIMUM SIZE	COMMENT	COMMENT
	RESOURCE	DEFINITION	N	
	RESOURCE WNEMONIC CPUI	# UNITS # UNITS 1 1 ATTR. NAME	INITIAL PUNITS INITIAL VALUE	DESCRIPTION
E-4	CPU2	1 ATTR. NAME ======= SPEED	INITIAL VALUE ESESSES 0	RESOURCE CPU2
	ARCHITEC	ARCHITECTURE LEGAL	L PATH DEFINITION	NOTTINI:
	FROM DEVICE	TO DEVICE	NEXT DEVICE	VIA LINK == ========
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	ACTION MNEMONIC BRESSES WORK	## ## ## ## ## ## ## ## ## ## ## ## ##	COMMENT	COMMENT
	PROCESS	DEFINITION	:	
	PROCESS	A 41 11 11 1	_	DESCRIPTION

SOCIEMANIA DE LA PRESENTA DE PROPERTA DE LA COMPAÑA DE

													<u>@</u>					
	COMMENT	READ CASE NUMBER	READ CPU TO BE USED	READ SPEED OF CPU	INITIATE MESSAGE READ MESSAGE LENGTH	BRANCH BASED ON CASE			CALL PROCESS 1	CALL PROCESS 2			5 PROC2 (P) 2 CPU 3 MSG (I) 4 PROC1 5 PROC1		PROCESS CASE1	COMMENT	WRITE ALPHA	
	PARM					EQ.	CASE 1		0	6			3 8		11 11 14 14 11 16 16	PARM	1 f 1 1 1 1 1 1 1	
INITIALIZE SYSTEM	PARM	NO EOFLABL	EOFLABL	EOFLABL SPEFD	EOFLABL	LENGIH		160	NOWAIT MSG 100	NOWAIT MSG		INITI	2	ION	CASE1	1	NO L_MSG	
INITIALIZ	PARM	ALL	TESTIN	TESTIN	MSG	CASE	ا ÇASE	END	PROC1 CPU END	PROC2 CPU	Š	LOCAL VARIABLES OF PROCESS INITI	2 CF (P)	DESCRIPTION	PROCESS (PARW	ALL C CPU TESTOUT	* TEST
	0PC00E	START	READ	READ	CREATE READ	COMPARE	COMPARE	BRANCH	ENIRY CALL GIVEN BRANCH	ENTRY CALL GIVEN	BRANCH ENTRY END	IABLES OF)C2 (F		11 16 18 19 19 11 18	OPCODE	START START GIVEN WRITE	
PAGE 3	ENTRY	; ; 1 ; ; ;							(ASE)	CASE2	END EOFLABL	LOCAL VAR	ACCEPTED IN CASE 5 PROC2	PROCESS WNEWONIC	PROC1	ENTRY	11 () () () () () () () () ()	

PAGE		PR0C1			
	WRITE	TESTOUT			WRITE CPU NAME
	WRITE	TESTOUT			WRITE WESSAGE NAME
	READ	TESTIN	EOFLABL	_	READ OVERHEAD VALUE
	EVAL	V GVHD DELAY	1		CALCULATE DELAY TIME
	WRITE	V OVHD + L ⁻ CPU{SPE TESTOUT	V 0VHD + L MSG[LENGIH] + L ⁻ CPU[SPEED] TESTOUT	•	WRITE DELAY TIME
		DELAY L_CPU		ALL	ALLOCATE CPU
	WORK	SPRIORTY CONSTANT	DELAY		DELAY FOR PROCESSING
EOFLABL	DEALLOC Entry End	SECUNDS L_CPU	NESUME 1		RELEASE CPU
LOCAL VARIATE ====================================	VARIABLES OF	OF PROCESS PROCI	PROC1	# E	LOCAL VARIABLES OF PROCESS PROCI ====================================
GLOBAL V	VARIABLES (OF PROCESS PROCI	S PROC1	61 61 61 61 61 61 61 61 61	GLOBAL VARIABLES OF PROCESS PROC1
PROCESS	0AM0	. # # # # # # # # # # # # # # # # # # #			
MNEMONIC) 	DESCRIPTION	NOI	11 16	
PROC2		PROCESS	PROCESS CASE2	 	
ENTRY	OPCODE	PARM	PARM	PARW	COMMENT
H H H H H H H H H H H H H H H H H H H	H H H C H C		## ## ## ## ## ## ## ## ## ## ## ## ##	10 11 11 11 11 11	0 H 6 H 11
	GIVEN	ALL COPU TESTOUT	L_WSG		WRITE ALPHA
	WRITE	STEST2 TESTOUT			WRITE PROCESS NAME
	WRITE	PROC2 TESTOUT			WRITE CPU NAME
	WRITE	L CPU TESTOUT			WRITE MESSAGE NAME
	READ	L MSG TESTIN	EOFLABL		READ OVERHEAD VALUE
	EVAL	V UVHD PELAY			CALCULATE DELAY TIME

WRITE DELAY TIME ALLOCATE CPU DELAY FOR PROCESSING RELEASE CPU	3 PROC2 (P) 4 DELAY			- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11		10D PERIOD PERIOD PERIOD MONIC MNEMONIC MNEMONIC MNEMONIC	GGER TIME TO SCHEDULE SCHEDULE MONIC SCHEDULE UNITS PRIORITY
WRITE TESTOUT ALLOC L CPU 1 ALLOC L CPU 1 WORK CONSTANT DELAY SECONDS RESUME DEALLOC L_CPU 1	EDFLABL END LOCAL VARIABLES OF PROCESS PROC2 LESSESSESSESSESSESSESSESSESSESSESSESSESS	GLOBAL VARIABLES OF PROCESS PROC2 LLIABLES BERNELLES BE	SCENARIO DEFINITION	SCENARIO WNEWONIC ====================================	PERIOD PERIOD OUTPUT LENGTH UNITS UNITS ====================================		

Ø ERRORS WERE DETECTED DURING MODEL INITIALIZATION ***

18:10:14 TEST082 04/22/1987 CASE 1 DATA PAGE

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PAGE

100.00000 SECONDS SIMULATION TIME =

VARIABLE REPORT

NUMERIC VARIABLES...

NON-NUMERIC VARIABLES...

CURRENT CURRENT VARIABLE TYPE VALUE

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w
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Second Description of consecution Second Description

SIMULATION TIME = 100.00000 SECONDS

ITEV REPORT

STD DEV	
N SYSTEM	. 0
TIME IN SY	. 0
MINIMUM	. 0
NUMBER DESTR'D	0
NUMBER CREATED	
I TEM	MSG

c	,	,	
۰		,	

100.00000 SECONDS	
SIMULATION TIME =	RESOURCE REPORT

MAXIMUM	1.000 6. 0.	1.000	6	
MINIMUM		6. 52.000	•	<i>e. e.</i>
STD DEV	0.500 0.	6.566 6.	· •	6 6
MEAN	. 480 . 60 . 60 . 60	0.520 52.000	e.	<u>6</u> 6
CURRENT	1.000	Ó	<i>6</i>	s.
TOTAL NUMBER	0			
RESOURCE	CPU1 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT OUT OF WAIT # WAITING WAIT TIME

CURRENTLY ALLOCATED TO PROCESSES: NONE

PROCESSES CURRENTLY WAITING: NONE

MAXIMUM	1.660 6.	 	6	6
STD DEV MINIMUM MAXIMUM	1.000 0. 0.	 	.	6
STD DEV		8 8	ė	6
MEAN	1.000 0. 0.	66	s .	6
CURRENT MEAN	1.000	e.		5
TOTAL NUMBER ========	0	00		00
RESOURCE	CPU2 # IDLE REQUEST TIME HOLD TIME	INTO BUSY OUT OF BUSY # BUSY BUSY TIME	# INACTIVE	INTO WAIT

PAGE 10

WAIT TIME
CURRENTLY ALLOCATED

STATES STATES STATES STATES STATES STATES

CURRENTLY ALLOCATED
TO PROCESSES: NONE
PROCESSES CURRENTLY
WAITING: NONE

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SIMULATION TIME = 100.00000 SECONDS

ACTION REPORT

STD DEV MINIMUM MAXIMUM OF TOTAL.	52.000
MAXIMUM	52.000 6.
MINIMOM	52.000 6.
STD DEV	999
TOTAL SAMPLES MEAN	52.000 0.
TOTAL SAWPLES	
ACTION	WORK USEFUL TIME DELAY TIME

PAGE 12

SIMULATION TIME = 100.00000 SECONDS

PROCESS REPORT

WAXIMUM	# H H H H H H H H H H H H H H H H H H H		e e						
MINIMUMW	11 11 11 14 14 11 11 11	69	6 6	Š.)) H 6 0			STD DEV	
STD DEV N	11 11 11 11 11 11 11 11		e e	# NOT # TIMES COMPLETE SUSPEND.		DESTR'D	6	MAXIMUM	
MEAN	H H H H H H H H H H H H H H H H H H H	.	. s	# OF # NE COMPLETE COM		1' 1 1' 1'		←	.0
SUM			9 9	# CALL	11 6 11 11 11 11 11 11 11 11 11 11 11 11 11	RECEIVED SENT			.0
TOTAL SAMPLES. S	11 11 11 11 11	~	<i>5</i> 0 <i>5</i> 0	# AUTO SCHEDULE		CREATED			1
PROCESS		TOTAL	PROCESS WAIT	w	II	ITEN	NSG	ITEM	S N

DESCRIPTION ====================================	COMMENT	#######################################	READ CASE NUMBER		READ CPU TO BE USED		READ SPEED OF CPU		INITIATE MESSAGE	READ MESSAGE LENGTH		BRANCH BASED ON CASE					
17 18 27 19 10 11 11	PARM	H H H H H H H										EG	CASE1	EQ	CASE2		
20 No. 20	PARM	11 11 11 11 11 CZ	EOFLABL		EOFLABL		EOFLABL	SPEED		EOFLABL	LENGTH					100	
DESCRIPTION ====================================	PARM		TESTIN	CASE	TESTIN	CPC						CASE	_	CASE	2	END	
	OPCODE	STARI	READ		READ		READ			READ		COMPARE		COMPARE		BRANCH	ENTRY
PROCESS	COUNT ENTRY		4 ,	-						-		7	,-4	0	0	9	1 CASE1

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		MAXIMUM	i si		. n . n	11 16 11 11	10 10 10 10 10 11 11	ш	ш
CALL PROCESS 1	CALL PROCESS 2	MINIMU ====== 62	• H		STO DEV	DESCRIPTION	COMMENT	PROCESS NAME	
CALL P	CALL P	STD D	M NOT # TIMES COMPLETE SUSPEND	DESTR'D ========	MAXIMUM	11 15 16 18 18 18 18 18 18 18 18 18 18 18 18 18	H 11 15 14	WRITE	WRITE
50 <u>-</u> _	6	MEAN	ارس ٠٠	SENT C	TIME MINIMUM	# # # # # # # #	II II		
NOWAIT MSG 100	NOWALT MSG 100		CALL # CALL # SCHEDULE COI	RECEIVED SI	MEAN	- - - - -	ii.	. G.	
PROC1 CPU END	PROC2 CPU END		פונה הפ	CREATED RE	PROCESS H # SMPLS ME	DESCRIPTION		STEST1 TESTOUT PROC1	L CPU TESTOUT L_MSG
CALL GIVEN BRANCH	ENTRY CALL GIVEN BRANCH ENTRY ENTRY	SAMPLES.		11 11 11	## 	DE:	OPCODE SESSESSES START GIVEN WRITE	WRITE	WRITE
PAGE 13	0 CASE2 0 0 0 1 EDD 1 EOFLABL 1	PROCESS	PROCESS WAIT RESOURCE WAIT TOTAL # SCHEDULE ====================================	I I I I I I I I I I I I I I I I I I I	ITEM 	PROCESS	COUNT ENTRY		~~~

7 AGE 14	READ	TESTIN	EOFLABL	READ OVERHEAD VALUE	SAD VALUE
ee ee ee	EVAL	V OVHO OELAY V OVHD	L WSG[LENGTH] .	CALCULATE DELAY TIME	DELAY TIME
, m	WRITE	L_CPU[SPE TESTOUT	L_CPU(SPEED) TESTOUT	WRITE DELAY TIME	/ TIME
·	ALLOC	L CPU	1 ALL	ALLOCATE CPU	2
-	WORK	CONSTANT	DELAY	DELAY FOR PROCESSING	ROCESSING
1 1 EOFLABL 1	DEALLOC ENTRY END	SECUNDS L_CPU	resome 1	RELEASE CPU	
PROCESS	TOTAL SAMPLES.	S. SUM	ME AN.	STD DEV MIN]	MINIMUM MAXIMUM
PROC2 TOTAL PROCESS WAIT RESOURCE WAIT	AL IT	000	<i>222</i>		
TOTAL # SCHEDULE	LLE SCHEDULE	CALL SCHEDU	LE COMPLETE COMPLETE	ETE SUSPEND.	
1	DESCR	DESCRIPTION	11 11 11 11 11 11 11 11 11 11 11	,; 10 11 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	11 17 11 11 11 11 11
PROC2		SS CASE2	PROCESS CASE2		
	_	_		COMMENT	
		ALL	NO NO I MSG		
000	WRITE	TESTOUT) 	WRITE ALPHA	_
5 69 69	WRITE	TESTOUT		WRITE PROCESS NAME	SS NAME
200	WRITE	TESTOUT		WRITE CPU NAME	JAME
ତ ଦେ ଶ	WRITE	TESTOUT		WRITE WESSAGE NAME	IGE NAME
9 69 6	READ	TESTIN	EOFLABL	READ OVERHEAD VALUE	EAD VALUE
9 50 50	EVAL	DELAY V OVHD +	DELAY V_OVHD + L_MSG[LENGTH] +	CALCULATE DELAY TIME	DELAY TIME
80		L_CPU[SPE	EED)		

 F N D DATE FILMED MARCH 1988 DTIC